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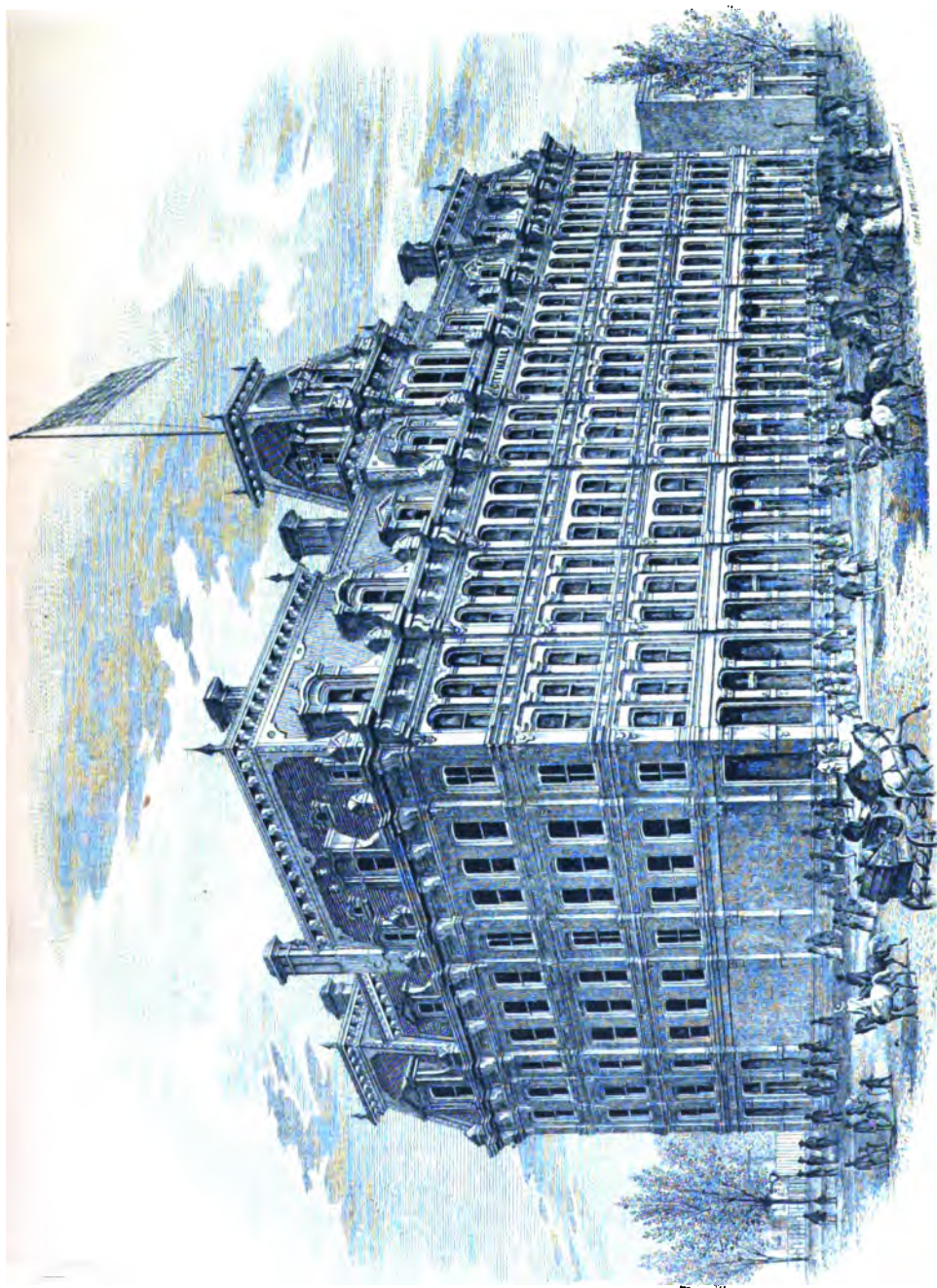
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REPORTS
OF
THE DEPARTMENTS
OF THE GOVERNMENT OF THE
CITY OF CLEVELAND
FOR THE
YEAR ENDING DECEMBER 31, 1880.
TOGETHER WITH
THE ANNUAL MESSAGE OF MAYOR R. B. HERRICK.



Published by Order of the City Council.

CLEVELAND, O :
HOME COMPANION PUBLISHING CO.
1881.

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CITY GOVERNMENT
OF THE
CITY OF CLEVELAND.

MAYOR,
R. R. HERRICK.

CITY CLERK,
W. H. ECKMAN.

CITY SOLICITOR,
GEORGE S. KAIN.

CITY AUDITOR,
HENRY FORD.

CITY TREASURER,
S. T. EVERETT.

CITY CIVIL ENGINEER,
B. F. MORSE.

THE CITY COUNCIL.

GEO. W. GARDNER, PRESIDENT.

N. A. GILBERT, PRESIDENT PRO-TEM.

W. H. ECKMAN, CLERK.

JOHN VANEK, 1st Ass't CLERK. J. C. DELAMATER, 2d Ass't CLERK.

FRANK HARRIS, PAGE.

Wards.	Names.	Term Expires.	Names.	Term Expires.
1st	T. M. Warner.....	1882	Chas. Burnside.....	1883
2d	Geo. W. Gardner.....	1882	David Morison.....	1883
3d	D. R. Tilden, Jr.....	1882	C. C. Schellentrager.....	1883
4th	Edgar Decker.....	1882	John N. Stewart.....	1883
5th	A. B. Halliwell.....	1882	Arnold Green.....	1883
6th	N. A. Gilbert.....	1882	Wm H. King.....	1883
7th	Arthur Devine.....	1882	John T. Hoehn.....	1883
8th	D. J. Lawler.....	1882	Patrick Smith.....	1883
9th	Henry D. Purdy.....	1882	J. C. Ferbert.....	1883
10th	Chas. W. Denison.....	1882	Thos. H. Cahoon.....	1883
11th	Wm. Jenkins.....	1882	M. A. Gross.....	1883
12th	H. S. Kellogg.....	1882	Robert Simpson.....	1883
13th	J. M. Curtiss.....	1882	N. F. Wood.....	1883
14th	Wm. Harrison.....	1882	Frank Karda.....	1883
15th	J. Y. Black.....	1882	J. W. Grimshaw.....	1883
16th	H. Clark Ford.....	1882	J. D. Schiely.....	1883
17th	Chas. A. Post.....	1882	A. H. Stone.....	1883
18th	M. I. DeCelle.....	1882	A. J. Hamilton.....	1883

STANDING COMMITTEES.

Appropriations.....	Hamilton, Ford, Warner.
Bathing and Bath Houses.....	Schellentrager, Purdy, Morison.
Breakwater.....	Harrison, Black, Smith.
Carriages and Express Wagons.....	Devine, Decker, Lawler.
City Property.....	Curtiss, Morison, Hamilton.
Claims.....	Curtiss, Schellentrager, Post.
Department Examination.....	Post, King, Tilden.
Elections.....	Black, Kellogg, Cahoon.
Finance.....	Gilbert, Stone, Hamilton.
Fire and Water.....	Warner, Stewart, Devine.
Harbors and Wharves.....	Ferbert, Cahoon, Smith.
House of Correction.....	Cahoon, Halliwell, Harrison.
Health and Cleanliness.....	King, Devine, Ferbert.
Infirmary.....	Simpson, Decker, Karda.
Judiciary.....	Ford, Green, Gilbert.
Legislation.....	Gardner, Gilbert, Post, Ford, Herrick, Kain, Eckman, Clerk.
Lighting.....	Kellogg, Stone, Burnside.
Markets.....	Burnside, Ferbert, DeCelle.
Military Affairs.....	DeCelle, Grimshaw, Lawler.
Ordinances.....	Schiely, Dentson, Green.
Parks and Public Grounds.....	Stewart, Schiely, Dentson.
Police.....	Tilden, Grimshaw, Stewart.
Printing.....	Purdy, Warner, Tilden.
Public Buildings.....	Lawler, Post, Simpson.
Public Offices and Officers.....	Burnside, Morison, Schellentrager.
Railroads.....	Gross, Wood, Karda.
Rules.....	Stone, Ford, Gilbert.
Schools.....	Jenkins, Green, Halliwell.
Streets.....	Morison, Kellogg, Hoehn.
Street Railroads.....	Halliwell, DeCelle, Purdy.
Viaduct and Canal Lands.....	Wood, Hoehn, Simpson.
Water Works.....	Grimshaw, Jenkins, Gross.
Taxes and Assessments.....	Decker, King, Curtiss.

DEPARTMENTS.

BOARD OF IMPROVEMENTS.

HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

D. MORISON,
CHAIRMAN COM. ON STREETS.
B. F. MORSE,
CIVIL ENGINEER

FRANK LYNCH,
CITIZEN MEMBER.
FRANK RIELEY,
STREET COMMISSIONER.

W. E. SHERWOOD, CLERK.

Regular meetings on Monday and Friday at 10 A. M.

POLICE.

BOARD OF COMMISSIONERS.

HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

J. R. SPRANKLE,
GEORGE W. SHORT,

W. H. GABRIEL,
J. H. BRADNER.

THOMAS KING, SECRETARY.

Regular meetings of the Board on first and third Tuesday of each month.

J. W. SCHMITT, SUPERINTENDENT.

JAS. McMAHON, SR. CAPTAIN.

H. HOEHN, JR. CAPTAIN.

H. HOLZWORTH, DETECTIVE CAPTAIN.

POLICE COURT.

GEORGE B. SOLDERS,
POLICE JUDGE.

JOHN B. FRASER,
PROSECUTOR.

WM. BAXTER, CLERK.

R. M. CORDES, ASST. CLERK.

J. W. FRANCISCO, ASST. CLERK

FIRE.

BOARD OF COMMISSIONERS.

GEORGE GLOYD, PRESIDENT.

T. M. WARNER, CHAIRMAN COMMITTEE ON FIRE AND WATER.

CITIZEN MEMBERS.

JOSEPH SLAGHT,

F. G. KAUFHOLZ,

N. WEIDENKOPF.

A. J. SPENCER, SECRETARY.

Regular meetings of the Board on the first and third Tuesdays of each month, at 7:30 P. M.

JAMES DICKINSON, CHIEF.

H. H. REBBECK,
FIRST ASST. CHIEF.

JOSEPH SPEDDY,
SECOND ASST. CHIEF.

A. A. CAVANNAH,
THIRD ASST. CHIEF.

P A R K S.

BOARD OF COMMISSIONERS.

DR. A. EVERETT, PRESIDENT.

J. H. WADE.

W. H. ECKMAN, CLERK.

J. H. SARGENT.

Board meets at the call of the President.

WATER WORKS.

BOARD OF TRUSTEES.

TRUMAN DUNHAM, PRESIDENT.

W. H. LUTTON,

S. W. SESSIONS.

H. C. HAWKINS, SECRETARY.

JOHN WHITELAW, SUPERINTENDENT AND ENGINEER.

Board meets on the 5th of each month.

WORKHOUSE AND HOUSE OF CORRECTION.

BOARD OF DIRECTORS.

HON. HARVEY, PRESIDENT.

J. H. WADE, VICE PRESIDENT.

S. C. BROOKS,

GEORGE H. HURT,

WILLIAM EDWARDS.

W. D. PATTERSON, SUPERINTENDENT.

JOHN A. MCINTOSH,

W. C. LOOMIS,

DEPUTY SUPT. WORKHOUSE.

DEPUTY SUPT. REFUGE DEPT.

MRS. MARGARET A. PATTERSON, MATRON.

Board meets on the first Tuesday of every month, at 2:30 P. M.

BOARD OF HEALTH.

HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

J. D. CREHORE,

H. W. KITCHEN,

W. J. SCOTT,

C. C. DEWSTOE,

J. F. ARMSTRONG,

W. H. HUMISTON.

G. C. ASHMUN, HEALTH OFFICER.

W. H. FARRAND, SECRETARY.

Board Rooms, No. 2, First Floor. Board meets first and third Thursdays in each month, at 7:30 P. M.

INFIRMARY.

BOARD OF DIRECTORS.

J. C. BARTLETT, PRESIDENT.

GEORGE KEIFFER,

WILLIAM CUBBON.

JACOB BLUIM, CLERK.

JAMES CHRISTIAN, SUPERINTENDENT.

THOMAS ROME, STEWARD.

B. W. HOLLIDAY, PHYSICIAN.

MRS. THOS. ROME, MATRON.

Regular meeting of Board first Tuesday of each month.

CEMETERY TRUSTEES.

G. A. HYDE, PRESIDENT.

G. A. HYDE, TREASURER.

JACOB MYER,

L. W. BAILEY, SECRETARY.

O. C. SCOVILL.

Board meets first Monday in each month.

S. F. DRAKE, SUPT. WOODLAND CEMETERY.

E. M. BISHOP, SUPT. ERIE ST. CEMETERY.

VALENTINE WORTH, SUPT. MONROE ST. CEMETERY.

JAMES MCGUFFY, SUPT. 18TH WARD CEMETERY.

SINKING FUND COMMISSIONERS.

H. B. PAYNE,

S. T. EVERETT,

CHAS HICKOX,

W. BINGHAM,

J. H. WADE.

BOARD OF REVISION.

HON. R. R. HERRICK,

GEO. W. GARDNER,

GEO. S. KAIN.

MARKETS.

C. BECK, SUPERINTENDENT.

C. O. EVARTS, CITY SEALER.

HARBORS AND WHARVES.

CAPT. JOHN KIRBY,

HARBOR MASTER.

CAPT. GEO. WARNER,

PORT WARDEN.

ANNUAL MESSAGE

OF THE

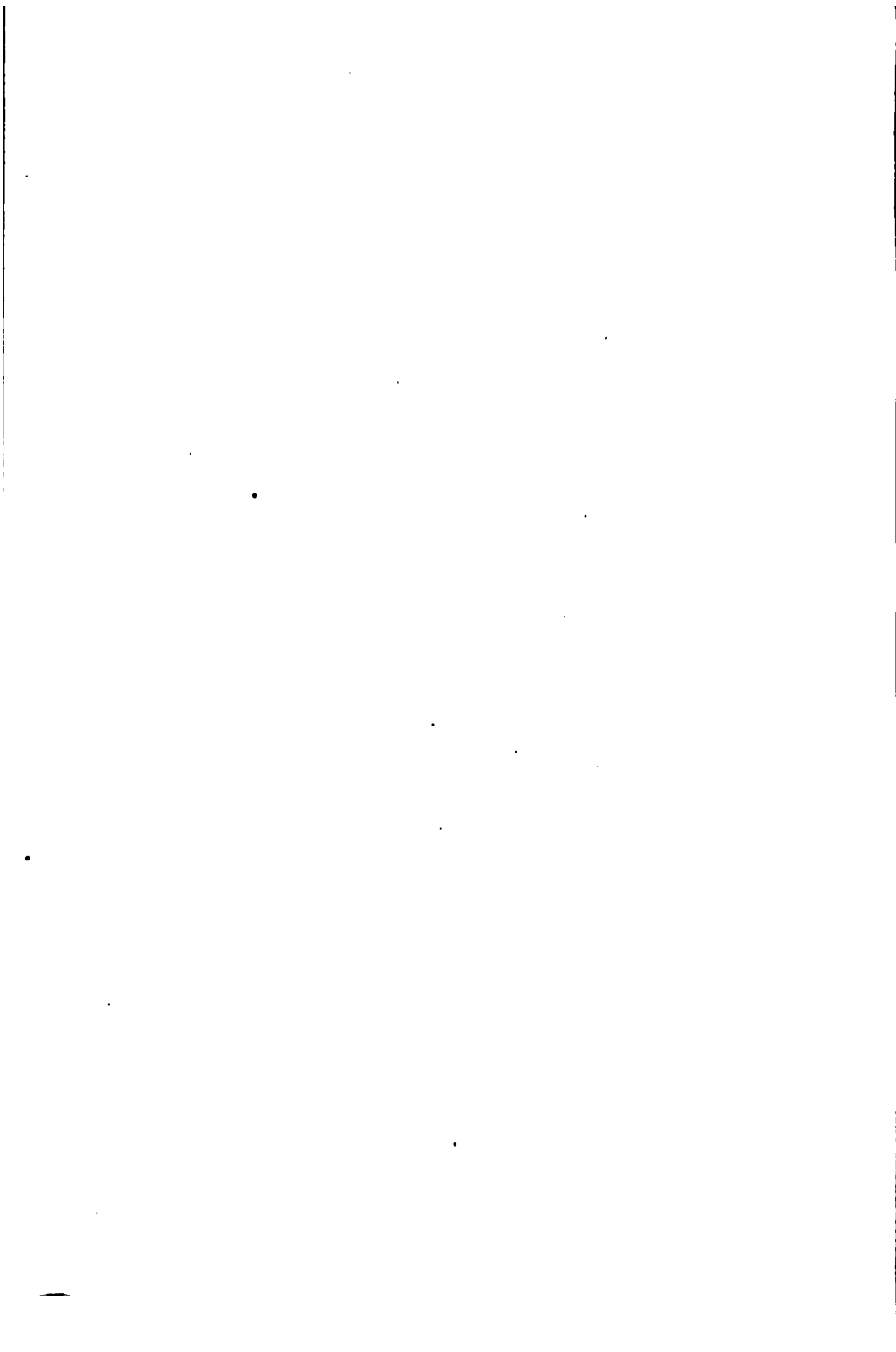
MAYOR

TO

THE CITY COUNCIL,

DELIVERED APRIL 18, 1881,

HON. R. R. HERRICK, MAYOR.



MAYOR'S ANNUAL MESSAGE.

GENTLEMEN : We are called upon at the beginning of this municipal term to consider again the question which has for years been the subject of public discussion in this country: How shall our great cities be governed? and in our future actions to give practical application to our ideas on the subject.

Three things are absolutely essential to the good government of any corporate body, namely: honesty, economy and efficiency in the conduct of every department and the administration of every trust.

The people, by their votes at the recent election, indicated their pleasure at the efforts made during the past few years to secure a good city government. Aided by experience we should endeavor to improve in methods of administration, and thus secure still better results. I know of no city in the Union that comes nearer to giving a practical solution to the question above stated than Cleveland at the present time, and I am persuaded that if we will, we can during the next two years approach still nearer the goal which it should be the ambition of every one identified with the city's interests to reach, namely: a perfect municipal government. We have it in our hands to make or mar the future of Cleveland. Her present is full of promise of future greatness, and it needs but the guidance of honest and skillful hands to keep her in the path to the fulfillment of these promises.

I congratulate you and the citizens of Cleveland upon the highly satisfactory condition of the city, both as to her governmental matters and her general business. We have every reason to be thankful to that over-ruling Providence which has

sheltered us from all severe afflictions during the past year and permitted us to continue, unembarrassed by calamities of any kind, on the road to a higher prosperity.

Cleveland is now being favored with a rapid and substantial growth. The decennial census, completed in this city in June last, showed her population to be 160,142. This is an increase of 67,313 over the census of 1870. The police enumeration made in January this year, gives the population as 167,413, an increase in six months of 7,271. At the present rate of increase it is plain to be seen that at no distant day Cleveland will assume an important place among the great cities of this country. In 1870 she stood fifteenth in size. In 1880 she is the eleventh. The following table shows the population of Cleveland by decades, from the date of arrival of the first man to the present time, also the average annual increase during decennial periods:

YEAR.	Population.	Increase in 10 years	Average annual increase in each decade.
1796	3	..	..
1810	57	51	5.1
1820	150	93	9.3
1830	1,075	925	92.5
1840	6,071	4,996	499.6
1850	17,600	11,529	1152.9
1860	43,417	25,817	2581.7
1870	92,829	49,412	4941.2
1880	160,142	67,313	6731.3
Jan., 1881	167,413	.....	.....

Thus, it will be seen that her growth has been steady, and latterly quite rapid. The average annual increase of each decade is very perceptibly larger than that of the preceding. According to present prospects the average annual increase during the present decade will be at least one and one-half times larger than that of the preceding, which, if true, will give us in 1890 a population of over 250,000. This influx of people is caused without doubt by the facilities for business offered to

the capitalist, and the opportunities for remunerative labor furnished those in search of employment. Reports from every quarter indicate a healthful business activity here, such as was never seen before. Capitalists in seeking a location in which to invest their money in business enterprises look as much to the rate of the tax levy at that place as to any other one thing, and will shun a city where the rate of taxation is excessive. It should therefore be our aim, kept constantly in view, to cut down and keep down the rate of taxation in this city as much as is consistent with its best interests. Niggardliness, however, is not economy. There are some things which must be done to preserve our self-respect, to keep abreast of the age and to turn to account all opportunities to better our condition.

FINANCES.

The first and most important subject for consideration is the city finances. We have been especially fortunate in having at the head of the financial department of the City Government one whose name is, to all who know him, a synonym for honesty and integrity, who has thus far during his term of office labored faithfully and earnestly for the city's interests, and in whom we all trusted, feeling sure that to the utmost of his ability the financial affairs of the city would be economically administered.

From the very complete and explicit report of City Auditor Ford I have compiled the following tables :

TABLE NO. 1.
RECEIPTS AND DISBURSEMENTS.

NAME OF FUND.	Rec'pts, including Bal. on hand Jan. 1, '80	Disbursements	Bal. on hand January 1, 1881	Deficit
Armory	\$ 14,130 34	\$ 13,519 95	\$ 610 39	.....
Bridge	33,492 57	33,166 46	326 11	.....
Dredging above U. C. W. bridge.....	30,809 67	30,857 50	.....	\$47 83
Dredging below do..	16,492 04	16,401 72	90 32	.....
Cemetery.....	3,648 30	385 12	3,263 18	.....
Fire Department....	151,150 48	148,426 60	2,723 88	.....
General	152,811 69	117,402 19	35,409 50	.....
House of Correction.	120,435 12	113,134 31	7,300 81	.....
Interest	423,643 40	402,082 50	21,560 90	.....
Infirmary	63,468 23	44,655 13	18,813 10	.....
Lighting	94,919 01	90,385 22	4,533 79	.....
Market.....	27,714 85	26,449 58	1,265 27	.....
Police Court.....	13,112 77	11,317 69	1,795 08	.....
Police Department..	151,269 57	145,476 18	5,793 49	.....
Park.....	13,358 53	10,877 20	2,481 33	.....
Street Department...	69,301 92	62,496 74	6,805 18	.....
Sanitary.....	7,584 33	7,537 08	47 25	.....
Sinking, for Gen. B'ds	100,507 36	95,000 00	5,507 36	.....
Viaduct Sinking....	361,008 23	.....	361,008 23	.....
Viaduct.....	5,704 56	4,682 30	1,022 26	.....
Water Works Dept..	252,085 75	203,843 73	48,242 02	.....
Water Works Sinking	2,065,562 71	469,297 18	1,596,265 53	.....
	\$4,172,211 43	\$2,047,394 38	\$2,124,864 98	\$47 83

This table shows that all the resources of the city for the year 1880, excluding School and Special Improvement funds were \$4,172,211 43 ; disbursements, \$2,047,394 38, leaving a balance on hand January 1, 1881, of \$2,124,817 05, and every fund in credit.

TABLE NO. 2.
ANALYZED STATEMENT OF DISBURSEMENTS—GENERAL FUNDS.

FUNDS.	Ordinary Expenses.	Am't paid for Work done in former years.	New Buildg's Land & other Improvem'ts.	Cost of Court Judges and Miscellaneous Expenses.	Am't of Taxes Paid.	Am't transferred to Other Funds.	Total Disbursements.
Bridge.....	\$33,166 46						\$ 33,166 46
Cemetery.....	20,727 67					385 12	385 12
Dredging.....	148,426 60	\$26,531 55					47,259 22
Fire Department.....	107,280 54						148,426 60
General.....	113,134 31			2,473 35	6,506 73	1,141 57	117,402 19
House of Correction.....	38,887 11						113,134 31
Infirmary.....	88,113 87		\$5,768 02				44,655 13
Lighting.....	10,174 43		2,271 35				90,385 22
Market.....	10,346 60		1,596 95			14,678 20	26,449 58
Police Court.....	138,176 13		971 00				11,317 69
Police.....	7,631 20					7,300 00	145,476 18
Park.....	60,415 48		3,246 00				10,877 20
Street.....	7,537 08		2,081 26				62,496 74
Sanitary.....	63,843 58		100,000 15				7,537 08
Water Works.....						40,000 00	203,843 73
Totals.....	\$847,861 20	\$26,531 55	\$115,934 73	\$2,473 35	\$6,506 73	\$63,504 89	\$1,062,812 45

Table No. 2 presents an analyzed statement of the disbursements from the general funds of the city. The total disbursements it appears were \$1,062,812 45. Of this \$847,861 20 were for ordinary expenses and \$63,504 89 were transfers made from one fund to another and not absolute expenditures. This leaves \$151,446.36, of which \$26,531 55 were paid for dredging done in former years, \$2,473 35 for court costs, \$6,501 73 for taxes and \$115,935 23 for permanent improvements. This is an increase in the disbursements from these funds over last year of \$39,255 18. Where the increase has been is shown by the following table:

FUNDS.	Disbursements for 1879.	Disbursements for 1880.	Increase.	Decrease.
Bridge	\$30,004 03	\$33,166 46	\$ 3,162 43	.....
Cemetery....	7,016 01	385 12	.....	\$ 6,630 89
Dredging....	42,162 64	47,259 22	5,096 58	.....
Fire Dep't....	151,792 99	148,426 60	.....	3,366 39
General.....	117,062 32	117,402 19	339 87	.....
House of Cor- rection	97,330 73	113,134 31	15,803 58	.....
Infirmary....	40,447 46	44,655 13	4,207 67	.....
Lighting	86,211 00	90,385 22	4,174 22	.....
Market.....	47,050 50	26,449 58	.....	20,600 92
Police Court..	9,406 94	11,317 69	1,910 75	.....
Police.....	143,027 35	145,476 18	2,448 83	.....
Park.....	7,338 75	10,877 20	3,538 45	.....
Street.....	75,037 26	62,496 74	.....	12,540 52
Sanitary.....	Included in Police Fund.	7,537 08	7,537 08	.....
Water Works	169,669 29	203,843 73	34,174 44	.....
	\$1,023,557 27	\$1,062,812 45	\$82,393 90	\$30,598 20

If now to the disbursements as shown by Table No. 2 we add the amount paid from

Armory Fund,	\$ 13,519 95
Interest Fund,	402,082 50
Sinking Fund for General Bonds,	95,000 00
Viaduct Fund,	4,682 30
Water Works Sinking Fund,	469,297 18
Total,	\$984,581 98

we have \$2,047,394 38, the amount of disbursements as shown by Table No. 1. To this add the following sums :

Paid on Special Debt.	\$759,152 98
Paid to Sinking Fund Commissioners,	98,190 10
Transfers from Special Funds,	96,120 82
Refunded Taxes,	58,999 58
Paid on Certified Estimates,	20,259 41
Paid on Pelton Park purchase,	16,666 66
Paid on Board of Education,	8,507 85
Miscellaneous,	759 48

and we have \$3,101,051 26, as the total disbursements for 1880, as shown by the Auditor's report, plus the disbursements by the Sinking Fund Commissioners for ordinary expenses and the payment of \$100,000 of Water Works bonds, which falling due January 1st, 1881, appear charged to that year in the Auditor's statement. A comparison of the disbursements for the years 1879 and 1880, is shown in the following :

	1879.	1880.	Decrease.
Ordinary expenses	\$ 851,944 32	\$ 847,861 20	\$ 4,083 12
From all General Funds..	2,124,965 13	2,047 394 38	77,570 75
From General and Special Funds for all purposes.	3,134,814 39	3,101,051 26	33,763 13

This exhibit is very satisfactory, especially when we consider the objects of the expenditures.

The following departments still continue to be self-sustaining.

TABLE NO. 3.

DEPARTMENTS THAT ARE SELF-SUSTAINING.

DEPARTMENT.	Income.	Expenditures.	Balance.
Water Works.....	\$204,563 33	\$203,843 73	\$ 719 60
Police Court.....	12,267 94	11,317 69	950 25
Markets.....	21,609 71	11,771 38	9,838 33
	\$238,440 98	\$226,932 80	\$11,508 18

Last year I included in this table the Workhouse and House of Refuge and Correction, whose earnings for 1879 exceeded by \$8,324 95 its ordinary expenses. In 1880, however, its disbursements were \$113,134 31 while its earnings were but \$97,528 95, falling short \$15,605 36 from being self-sustaining.

I insert again this year the following table which shows the valuation of the taxable property of the City, the rate of the levy for all purposes since 1872, the rate of levy for ordinary expenses since 1874, and the proceeds arising from each :

Year.	Valuation.	Rate of Levy for Ordinary Expenses.	Rate of Levy for Entire Expense.	Proceeds of Levy for Ordinary Exp's.	Proceeds of Levy for Entire Expenses
1873	\$69,144,682	....	16.55	.....	\$1,144,344 49
1874	73,210,144	....	18.65	.....	1,365,369 19
1875	73,305,277	12.25	18.75	\$871,049 94	1,374,473 94
1876	73,562,237	11.25	18.75	802,747 91	1,379,291 94
1877	71,296,122	9.65	17.85	667,367 41	1,272,635 78
1878	70,139,639	9.315	15.35	653,363 75	1,076,643 46
1879	70,548,104	8	15.05	564,384 83	1,061,748 97
1880	73,647,194	8.45	15.75	622,318 79	1,159,943 31

From this table it will be observed that there has been an increase in the valuation of city property, and the rates and proceeds of levy for 1880. When this levy was made it was estimated that there would be somewhat of an increase in the amount of expenditures over 1879, on account of the general

on wages and material of all sorts, consequent upon increased business activity. To provide for this the levy raised over 1879 seven tenths of a mill. This calculation is based upon the then valuation of taxable property, to wit: \$10,548,104. Had it been known that there would be such an increase in this respect, there would have been no advance in the tax levy.

The decennial valuation will be the one upon which will be based the levy of this year. According to present indications it will be at least \$10,000,000 greater than for 1880. This will of course enable us to realize more money upon a less rate of levy than heretofore. But the demands upon the City Treasury will be greater than during the past year. The police force must be increased, a number of our streets must be repaved, our water works are being enlarged to accommodate the constantly increasing demand, so that its earnings are absorbed in the payment of the cost, and no contribution can be made from that source as heretofore to help pay our interest charge. This additional expense must, in a great measure, be met by a general levy. The amount it will be necessary to raise for these purposes can only be approximated at this time. Much will depend upon how extensively we go into the repavement business.

It is with unalloyed pleasure that I call your attention to Table No. 5, which shows the general and special bonded debt of the city for the last nine years, and the statement of the management of the city's debt, which follows :

Year.	General Bonds.	Special Bonds.	Total.
1873	\$3,447,592 75	.....	.....
1874	3,967,000 00	\$1,216,600 00	\$5,183,600 00
1875	4,709,000 00	2,552,000 00	7,261,000 00
1876	5,160 000 00	2,937,900 00	8,097,900 00
1877	5,577,000 00	3,027,900 00	8,604,900 00
1878	6,061,000 00	2,993,164 00	9,054,164 00
1879	6,678,000 00	2,606,100 00	9,284,100 00
1880	6,201,000 00	2,390,100 00	8,591,100 00
1881	6,326,250 00	1,589,000 00	7,915,250 00

The management of the city's debt for the past year was as follows :

GENERAL BONDS OUTSTANDING JANUARY 1, 1880.

Water Works	\$1,275,000 00
Funded debt	1,534,000 00
Infirmary	48,000 00
Dredging	80,000 00
Park	315,000 00
Canal	275,000 00
Viaduct	2,135,000 00
House of Correction	184,000 00
School	355,000 00
	<hr/>
	\$6,201,000 00

GENERAL BONDS ISSUED IN 1880.

Viaduct.	\$ 3,000 00
Funded debt	308,000 00
Park	3,250 00
	<hr/>
	\$314,250 00

GENERAL BONDS PAID IN 1880.

Water Works	\$ 75,000 00
Funded debt	84,000 00
Infirmary	6,000 00
Dredging	19,000 00
School	5,000 00
	<hr/>
	\$ 189,000 00
Increase in general bonds	125,250 00
Total general bonds outstanding Jan. 1, 1881	6,326,250 00

SPECIAL INDEBTEDNESS.

BONDS OUTSTANDING JANUARY 1ST, 1880.

Street Improvement	\$ 830,300 00
Street damages	1,066,300 00
Sewers	493,500 00
	<hr/>
	\$2,390,100 00

BONDS ISSUED IN 1880.

Street improvement	\$57,000 00
Street damages	24,000 00
Sewer	8,000 00
	<hr/>
	\$89,000 00

BONDS PAID IN 1880.

Street improvement	\$424,800 00
Street damages	380,300 00
Sewer	85,000 00
	<hr/>
	\$890,100 00
Special debt outstanding Jan. 1, 1881	\$1,589,000 00
Decrease of special debt in 1880	801 100 00
Increase of general debt in 1880	125,250 00
	<hr/>
Total decrease in bonded debt	\$675,850 00

TOTAL INDEBTEDNESS IN ALL FORMS JANUARY 1, 1881.

General bonds outstanding	\$6,326,250 00
Special bonds outstanding	1,589,000 00
	<hr/>
	\$7,915,250 00
Notes for Pelton Park unpaid	33,333 34
Certified estimates unpaid	2,283 34
Overdrawn special accounts	116,072 12
	<hr/>
	\$8,066,938 80
Total debt January 1, 1880	\$8,801,595 70
	<hr/>
Total decrease in 1880	\$ 734,656 90
Decrease of debt in 1879	738,241 14
	<hr/>
	\$1,472,898 04

Since December 31, 1880, the Sinking Fund Commissioners have paid \$400,000 of Water Works bonds, so that our entire debt is less to-day by \$1,134,656 90 than on the 1st day Jan-

uary, 1880, and by \$1,872,898 04 than on January 1st, 1879.

The bonded debt stands to-day as follows :

General bonds	\$5,926,250 00
Special bonds	1,589,000 00
	<hr/>
Total	\$7,515,250 00

As was anticipated a year ago a large amount of the special debt was made general by the action of the courts in enjoining the collection of certain taxes assessed upon the property benefited to pay the costs and expenses of special improvements. Thus far \$885,706 65 have been removed as a charge against property owners who reap all, or substantially all, the advantages from the improvements, and placed upon the taxpayers at large. Of this amount \$594,248 21 fell due last year, a far greater sum than was anticipated at the time I addressed you last. Of these \$317,759 95 were provided for in the manner indicated at that time, namely, by the Sinking Fund Commissioners, out of what is known as the Water Works Sinking Fund. To meet the balance required the issue of \$275,000 funded debt bonds. By this means, instead of showing, as we otherwise would, a decrease during the year in the general bonded debt of the city of \$158,000 this debt was actually increased to the amount of \$125,250, although \$189,000 of general bonds were paid. But we are not yet done with this nefarious business. There still remains of that portion of the special debt thrown upon the city in the general overturning of one year ago, \$306,163 44. Of this, \$140,553 35 falling due September 1, 1881, will be taken by the Sinking Fund Commissioners. But not content with the relief which the removal of nearly \$1,000,000 of taxes afforded them, some of the very persons who were thus advantaged are seeking now to overthrow the new assessments and thus saddle upon the city an additional amount if not the whole of the cost of these special improvements. What the results of these suits will be cannot be foretold, but so sanguine are

the property owners interested that new suits are begun almost daily to enjoin the collection of the taxes.

I desire just here to call attention to an attempt which I believe is being made to burden us still further with a bonded debt. A bill known as Senate bill No. 224 was introduced into the State Legislature early in this winter's session to amend Section 2293 of the Revised Statutes of Ohio. I am unable to find that this was done upon the advice or after consultation with any member of the City Government. This bill provided that if the cost and expense of paving and improving a street, alley or other public highway has been paid by the abutting property owners and it becomes necessary to repave such street &c., one half of the cost and expense of such repaving and such portion of the remainder thereof as the Council shall deem just and reasonable shall be placed on the general tax list of all taxable property in the corporation and collected as other taxes are collected and applied to such costs and expenses of repaving, and bonds may be issued bearing a rate of interest not exceeding six per cent per annum payable semi-annually in anticipation of said taxes to pay for such improvements.

It will be noticed that this is the first attempt to strike down the barrier interposed by the Burns Law, against the wholesale issuing of the bonds of the city. A copy of this bill was obtained while pending and submitted to the consideration of the Council Committees on Finance and Legislation, the City Auditor and Board of Improvements, who were unanimously of the opinion that no such authority to issue bonds for the purposes mentioned in the bill was needed by the city and that it should not be granted by the Legislature at this time. An amended bill was drawn with the clause authorizing the issue of bonds stricken out and submitted to the Council. The Council approved it and ordered a copy sent to each member of the Legislature from this county with a request that it be passed instead of the original Senate bill. There was no dissent on the part of any member of the Coun-

cil on this proposition. Thus then the whole City Government declared that no such power or authority as was sought to be bestowed upon it was needed or desired. For some reason to me entirely inexplicable our members of the Legislature saw fit to utterly ignore the Council, and have permitted the passage of a bill conferring upon it the authority above named. There is no present necessity to make use of the power granted, hence it is ill-timed. It is not broad enough in its terms to authorize the issue of special bonds to extend the time of payment of the assessments upon abutting property—hence it is ill-conceived. If bonds were to be issued at all, it should be to help the owners of property abutting upon streets about to be improved, unless it is intended, as is probably the case, to throw upon the city at large the entire cost and expense of re-paving all streets that have been once paved at the expense of the abutting property owner. Ordinances providing for the re-pavement of a number of streets will come before you for action this year. It is probable that under the authority granted by this bill an effort will be made to throw upon the general duplicate the entire cost of such work. If this is done, and work is commenced upon the several streets this year as it ought, it will be necessary to issue bonds to meet the expense. If, however, the policy of the last Council is adopted and not to exceed one half of the cost and expense is paid by the city it will not only not be necessary to issue bonds to meet the city's portion of the cost but only a very small tax if any will be required. The Sinking Fund Commissioners have agreed, if the trustees of the first seven wards will concur, to contribute from the earnings of the old Sinking Fund from \$60,000 to \$80,000 per year to meet the cost of repaving all streets within those wards.

This amount with what can be raised from other sources, and a small levy will meet the city's portion of the annual expenditures for all such improvements throughout the city.

I earnestly recommend that the authority granted by the

above bill be not exercised, that we continue the policy of the past few years and secure the money in the treasury to pay for an improvement before we begin it.

PUBLIC IMPROVEMENTS.

During 1880 there was less expended by the city for public improvements than for many years prior thereto. The total cost of all work done under the supervision of the City Civil Engineer, who has charge of such improvements, was \$65,872 11. The reason that more improvements were not entered upon was that the city authorities were determined that nothing should be done on their part to incur additional debt, and that everything must be paid for as we went along. Some people are inclined to criticise this policy, characterizing it as penurious, tight-fisted and niggardly. They think that the city should continue to make improvements and that if there is not ready money enough on hand raised by taxation, to pay for them, bonds should be issued and the means provided in that manner.

It is not a course which they themselves would, as business men, pursue, nor recommend to a business friend, yet they insist that it is the proper thing for the city to do. Why the business principles which are applicable to an individual or private corporation are not equally applicable to a municipal corporation, I am unable to see, nor why it is not quite as essential for its well-being that the latter should live within its income as the former. The past ten or twelve years have been prolific of improvements and resulted in heaping up debt at the rate of nearly a million dollars a year, and but for a positive enactment of the General Assembly, it is probable that the frenzy for improvements would have carried our municipal law-makers still further in increasing the burden of debt and taxation. The respite of the last two or three years has enabled us to get back again to sound business principles and to relieve ourselves of a considerable portion of the debt burden, so that now we are in a condition to move on. There is a necessity, too, for such a movement.

In my last annual message I called attention to the bad condition of some of our paved streets, and recommended the immediate passage of the necessary ordinances providing for the assessment and collection of taxes sufficient to meet the expense of repaving them, as under the "Burns Law," as construed by Solicitor Heisley, no such improvements could be made until there was money in the fund to pay for them, raised from some other source than the issue and sale of bonds. Several ordinances were introduced early in the municipal year to carry out their recommendation. They contemplated the assessment of the whole cost of the improvement upon the abutting property. Their passage was strongly opposed by the owners of the property abutting upon the street, and as a consequence no definite action has been had upon more than two or three of them.

Some of our principle business streets are in a deplorable condition, and are a constant source of complaint to our citizens and a positive disgrace to the city. Three questions are involved in the consideration of these ordinances:

1. Ought the abutting property owners who have once paid the amount assessed upon their property for the pavement of a street, to be taxed for the entire cost of such repavement, less the amount required by law to be paid by the city?

2. Should the city require any particular kind of material to be used in the pavement of streets, or permit the property owners to choose for themselves?

3. If stone is the material required to be used, then of what quality shall it be?

It seems to be the prevailing sentiment among the members of the City Government as the result of the past year's consideration of the subject, that the cost of repaving a street, which has been once paved at the expense of the abutting property owner shall be equally divided between the city and the abutter—upon the condition, however, that the kind of material to be used in such repavement shall be stone.

The question as to the kind of material to be used in paving

streets, is one with regard to which there is still a diversity of sentiment, but I believe it to be practically resolved in the minds of a majority of our people in favor of stone, at least for all principal thoroughfares. I am still of the opinion expressed one year ago, that the past experience of this city shows conclusively that stone is the only material fit for use, especially upon streets traveled by heavily loaded teams. This view is confirmed by the experience of other cities. From the messages of Mayors and the reports of Engineers in Albany, Chicago, Milwaukee, St. Louis, and Washington, D. C., it appears that the pavement question is one which has been much considered among the authorities of the several cities, and the universal judgment is in favor of hard and durable material for streets where the teaming is heavy or not evenly distributed. The specific material recommended by these several officers varies, according as one or another is the more accessible. In the most of them granite is chosen, while in Chicago the Mayor recommends Belgian block. With us, that which combines the qualities desired in the greatest degree, and is the most accessible, is Medina, N. Y., sand stone. The third question is not yet solved, and is now, and has been for some weeks past, the sole obstacle in the way of the passage of several repaving ordinances. Some maintained that the city should only pay one-half the cost of an ordinary wet stone pavement, and that if the property owners want a better pavement they should make up the difference themselves. Others contend that the city should pay one-half of the cost of whatever stone pavement is laid, provided it is of a good and durable quality. It seems to me that the latter is the true position. Property owners should be encouraged to lay the best kind of stone pavement in front of their property, for in so doing they add materially to the health and comfort of our citizens, as well as to the character of the city, and insure a smooth and durable roadway for a longer period of time.

SEWERS.

City Civil Engineer, Morse, in his report for 1880, calls attention to the bad condition of the sewers in the lower part of the city, especially in the third ward. He says that many of them were built years ago and that they are now too small and too near the surface of the streets and should be replaced by new ones. I recommend that your honorable body give this matter your immediate attention, and that such action as may be necessary be taken before any of the streets in which new sewers are to be built are re-paved. Your attention is also called to the suggestion of the Engineer in his report, that an intercepting sewer be constructed to run along in the vicinity of Canal street and the tracks of the C. C. C. & I. R'y, from Commercial street to Lake Erie, for the purpose of taking up the sewers that now empty into the river in that part of the city. He further suggests the building of an intercepting sewer along the lake shore as far east as Willson avenue, to take up the sewers that now run into the lake in front of the city, provided it is thought that Cleveland is sufficient of a city to justify such an undertaking. He says that the intercepting sewer on the east side of the river above referred to should be connected by proper appliances with Walworth Run sewer when built, and then extended by tunneling under Lake and other streets as far as Willson avenue, and there empty into the lake; or the tunnel could be carried out under the lake the proper distance from the shore so that the discharge of sewerage matter would not be detrimental to property in that vicinity.

Although it may not be an absolute necessity to construct these sewers at present, still the time is not far distant when some such system of drainage must be adopted, and in presenting these suggestions at this time the Engineer shows his usual wisdom in taking forethought for the future needs and requirements of the city. The necessity for some such sewers, especially the one just east of the river, is obvious. Under the present system of sewerage the city we have what is

equivalent to two large open sewers, one, the Cuyahoga river, traversing the city from north to south its entire length—the other, Walworth Run, from east to west through the westerly half of the city. Into these pours all the house and surface drainage of a large portion of the city—the filth from the slaughtering houses, oil refineries and manufactories which line their banks. Their waters become impregnated with these foul mixtures and when exposed to the summer's sun cannot but exhale a noisome and unhealthful odor. Some of the filthy substances which find their way into the river, settle to the bottom and there remain until brought to the surface by the action of the wheels of some passing steamer, when they give forth a disease breeding stench, and sink back to await the next opportunity to rise.

Another ill effect of the deposit of so much nastiness in the river was seen in the condition of our drinking water from the lake at the time of the ice gorge at the mouth of the river this winter. The ice in the lake prevented the egress of that in the river, so that when the latter broke away it was forced by the current under the lake ice until it reached such a depth as to plough up the concentrated filth at the bottom of the river and in the lake just at its mouth. This was carried out towards the Water Works Crib, and a considerable quantity found its way into the water pipes and was distributed throughout the city. We needed no analyst to tell us of the impurities contained in that water. Our senses of taste and smell bore sufficient testimony to the fact. Much, too, of the offal that is thrown in the river and Walworth Run is carried by the current into the lake and is then washed landward and deposited along the shore and there left to putrefy and decay, emitting in the meantime noxious odors and rendering the neighborhood disagreeable both to sight and smell.

The suggestions of Mr. Morse are of sufficient importance to demand serious attention. It is now time Cleveland was making calculations for a future of rapid and permanent development. To insure and maintain such it is necessary that

its sanitary condition should be well looked to and there is nothing which contributes more to the health and cleanliness of a city than a perfect system of sewers. I trust you will give this matter your immediate attention and take such action with regard thereto as the exigency of the case may require.

DREDGING.

As important a matter as any connected with the management of city affairs is that of properly looking after our river interests. During the next year much more dredging than usual should be done. The probabilities are that soon the territory adjacent to the upper part of the river will be occupied with manufactories and other industries. New docks are now being built. The Valley Railroad has already given business in that locality a good start and the completion of the Connotton Northern Railroad will still further advance it. Four blast furnaces said to be the largest in the world are soon to be erected near the N. Y. P. & O. R. R. bridge, one of which will be in operation the present year. To accommodate this business it is necessary that the river should be dredged so as to afford a fourteen (14) foot channel as far up as the bridge above named. To do this and to keep the river in as good condition as it was last year will, according to the estimate of Mr. Morse, cost from \$55,000 to \$65,000, one half of which will be borne by the abutting property.

The funds for all necessary dredging should be provided without delay. The city cannot afford to leave undone anything that will furnish reasonable and proper facilities for all business enterprises that may be established within her limits.

STREET DEPARTMENT.

The Street Commissioner again submits an exhaustive report of the work done in this department during the past year.

The cleaning of streets, alleys, &c., was done under contract as for several years heretofore.

Commissioner Rieley says that upon paved streets this system works well but upon unpaved streets it is not at all satisfac-

tory, for the reason that no two streets are alike in the amount or character of the work to be done and no rule can be made which will apply to all parts of even one unpaved street, and that as a consequence the work is very poorly done and there is continual contention between the department officers and the contractors as to how the work should be done.

Notwithstanding this I believe the contract system as a whole is the cheapest and best for the city to pursue. It invites competition among contractors for doing the work and thus the cost to the city is reduced. It prevents political favoritism or patronage. Experience will in my judgment correct many of the evils complained of and each year will find more of the objections removed. This department has been well managed and the streets of the city kept in as good condition as was possible for the amount of money appropriated for street purposes.

WORKHOUSE.

The tenth annual report of the Directors of the Workhouse and House of Refuge and Correction shows the expenditures in behalf of this department during the past year, to have been somewhat in excess of its earnings, yet not so much as to exhaust the Workhouse fund. I confess to a little surprise at seeing the income of these institutions fall so far below the disbursements.

From the exhibit of the preceding year which showed the net earned income to exceed all ordinary expenses by \$8,324, from the general increase of earnings for several preceding years and the healthful activity which seemed to prevail in almost every industry throughout the country, we had reason to expect that the income of the department last year would exceed the disbursements by a considerable sum. The cause assigned by the Superintendent, Mr. Patterson, for this great falling off in receipts is, that the market for the goods manufactured by them was overstocked and dealers refused to buy so that they closed the year with greatly reduced sales and a stock of manufactured goods on hand such as they have not

had in the past. The Directors and Superintendent both express confidence in their ability to maintain themselves without special taxation if their goods can be sold at a fair price. This is of course a necessary element to the success of any business. I think there can be no question but that the business of these institutions has been conducted with ability and economy, that the best results attainable under the circumstances have been realized, and that no effort will be spared in the future by either the Directors or Superintendent to maintain the department upon a paying basis. The whole number of inmates of the Workhouse department during the year were 1,334 ; of the Refuge Department, 213 ; total, 1,547. This is an increase over 1879 of 225. There has been an increase in the number of inmates of these institutions each year since they were established. This fact gives pertinency to the remarks of the directors in their report, wherein they suggest a method by which, in their judgment, the number of criminals in the city may be materially lessened. These gentlemen speak from an experience of ten years in connection with these institutions, and after a careful investigation into and study of the causes of crime and the means of prevention. Their suggestions are therefore entitled to much weight. They declare idleness to be the chief source of crime and profligacy and in this they are in accord with many other students of the same subject. Their plan would be "to establish at a convenient point in the city an 'Employment House' where all the poor of the city, able and willing to work could find it and earn by their labor, especially during the winter months, sufficient to supply their physical needs," The result of such a scheme they feel confident would be "to abate largely the burden of voluntary charities, now annually bestowed by our citizens as well as to inspire the worthy poor with a higher degree of self-respect by encouraging them in habits of industry and thus to elevate them in the scale of useful citizenship." Substantially the same plan was adopted in the Infirmary Department in 1878, and has been in operation since, so far as facilities have been

furnished by the City Council to that end. It was adopted as a means to discriminate between worthy and unworthy applicants for the city's aid, and its beneficial results were immediately apparent in the greatly decreased number of applicants for relief, and the lessened cost to the city of sustaining the out door relief department. It weeded out both those who were too indolent and lazy to work for their living and those who had been too extravagant with their summer earnings, relying upon their ability to get through the winter by aid from the city. The city should ever be ready to lend a helping hand to its unfortunate poor, but not one cent should be given except in return for an equivalent in labor or services, unless the applicant shall be mentally or physically incompetent to work. The system of indiscriminate giving, whether by individuals, societies or municipal corporations, is entirely wrong. It fosters indolence, idleness, pauperism and crime. It is pleasant to note the uniformity of sentiment upon this subject in almost every quarter of the city. It has found expression in the recent formation of the Society for Organizing Charity. This institution is based upon the principles that idleness is the mother of vice, and that promiscuous and indiscriminate giving is not charity. It seeks as I understand to supplement the labors of our municipal institutions and also the church and aid societies throughout the city, and to direct the course of individual charitable gifts. It also strives to secure employment for those who are able to work to the end that they may be independent and self-supporting. Its creation is the result of the progressive humanizing spirit of the age, its conception the outgrowth of noble minds and hearts. The character of its founders and those who are identified with its interests guarantee its successful operation and that thousands of the unfortunate in our rapidly growing city will, in the future feel its beneficent influence.

The report of the Workhouse Directors should be well considered with a view to lending such co-operation in carrying out the plans proposed as may be judged for the best interests of citizens.

INFIRMARY DEPARTMENT.

This department is, without doubt, striving to eradicate pauperism from the city. Each year shows a considerable decrease in the number of applicants for relief from the preceding year. This is owing, unquestionably, to the searching investigations made into the condition of every applicant before relief is furnished. It is now becoming well known to all who may desire the city's aid in this direction, that it will not be furnished upon a simple request, but that there must be actual need, brought on by misfortune or some unavoidable cause. Although there are times when it would seem that the rigidity of the system pursued should be somewhat relaxed, still, close observation convinces us that the course pursued is best, both for the applicants themselves and the city at large. The following table shows for itself what is being accomplished in this department, and indicates the care and attention bestowed by the officers in the performance of their duties :

Year.	No. of Inmates.	No. of Applications for Outdoor Relief.	Annual Expenditure.	Produce of Farm.
1875	807	4,126	\$81,256 21	\$3,884 50
1876		3,517		
1877	727	3,113	100,911 35	4,037 44
1878	611	1,894	63,985 17	4,689 44
1879	601	1,857	40,447 46	4,360 15
1880	686	1,549	44,655 13	4,113 30

POLICE DEPARTMENT.

This department has been well conducted during the past year, and much valuable service has been rendered by it in protecting the lives and property of our citizens. The force is and has been for some time much too small to meet the just requirements of the city, but the fault has been with the law which limited the number of patrolmen to one for every 750 inhabitants of the city at the Federal Census of 1870.

Now, however, since the Federal Census of 1880 form the basis, a change will be made and the force increased to meet

every demand, as soon as money can be collected to support them. The cost of conducting the department in 1880 was \$132,802 61. For that sum we have employed 161 policemen, who have patrolled 424 miles of streets, made 6,549 arrests, recovered \$24,913 40 worth of property out of \$28,780 90 worth, the whole amount stolen, and have guarded the lives and property of over 160,000 inhabitants.

I think that under the circumstances the efficiency of the force cannot be questioned.

FIRE DEPARTMENT.

The citizens of Cleveland may well be proud of this department. It takes rank for efficiency with the best fire departments in the world. Its officers and men are active, well disciplined and courteous.

The security felt by the people against any extensive conflagration is the best evidence that they are well satisfied with the management of the Fire Commissioners. From the annual report for 1880 I extract the following :

The number of men employed is 142, the apparatus consists of 15 steamers, 22 hose carts, 1 aerial ladder, 4 hook and ladder trucks, each provided with a fire extinguisher, 3 fuel, 1 telegraph, 1 patrol and 9 exercise wagons, all together requiring 67 horses.

The number of alarms responded to during the year was 337. The total loss by fire \$268,799 58. The suggestions made in this report should receive your attention, to the end that such aid may be furnished as is necessary to maintain the present high character of the department.

HEALTH DEPARTMENT.

This department has been, until within the last year, under the control of the Board of Police Commissioners. Under authority of an act of the General Assembly of the State passed March 29, 1880, a Board of Health was established which assumed control of the sanitary affairs of the city about May 1st, 1880. The change was unmistakably a wise one. This

Board, the members of which were appointed by the Council, is composed of intelligent, able and practical men, a majority of whom are physicians who are recognized as among the first in their profession. It can hardly be questioned that such a body is better qualified to care for the sanitary interests of the city than those who are totally unacquainted with the science of medicine. The principal subject with which they have had to deal during the past year, was the "stench nuisance." During the summer months, almost nightly, a sickly, offensive odor arose from the packing, rendering and fertilizing establishments located along Walworth Run and in the valley of the Cuyahoga River. This at length became intolerable, and the Board took steps to suppress it. The first and greatest difficulty experienced was in locating the source of the foul smell. Having become satisfied whence it emanated, the Board gave notice at once to abate the nuisance. Then commenced a conflict which lasted for a considerable time, between one of the parties and the Board, in which the power of the law was invoked on both sides. The Board, however, was successful, and if it has not entirely eradicated the evil, it has given strong evidence of its determination to do so, and what is better still, that it has the courage of its convictions and will stand by its orders until they are obeyed.

The Board has thus far been much hampered for want of funds. The total amount received from the Police Commissioners was \$7,300, on which they sustained the Department for eight months.

The efficiency of the Board will without doubt increase as time brings experience of the needs and requirements of the place.

Its efforts to secure and maintain a good sanitary condition throughout the city should be well supported and a liberal annual appropriation made for that purpose.

WATER WORKS.

The greatly increased consumption of water in 1879, over preceding years, made it plain that there would have to be increased facilities to meet the future demand. Accordingly the Water Works Trustees proceeded, during the past year, to enlarge their works and to lay a large main pipe from the works to the east side of the river. This has been attended, as a matter of course, by a heavy expense. In my last message I spoke of the probable necessity which this improvement, then contemplated, would entail, to raise funds to meet its requirements. Much to the surprise and gratification of all, however, the earnings of the department have been sufficient to meet all demands thus far made on that account, and although the issue of \$200,000 of bonds was authorized for this purpose, none of them have yet been used, and as the amount necessary to complete the improvement will be earned and collected by the department by May 1st, next, there will be no need for any of the bonds. I therefore recommend the repeal of the ordinance authorizing their issue. The work of enlarging the Water Works has been prosecuted during the past year with energy and dispatch. A new boiler-house foundation has been laid, new engine boilers purchased and pipes extended at a cost of \$112,180 31. It is a matter for congratulation that so much of the work was completed last fall. Had it not been we would have been in a sorry plight indeed, during the winter, for even with this additional capacity there were days together when the pressure was not sufficient to force the water up to the third stories of some buildings. The consumption during the time was over 19,000,000 gallons per day.

From the Twenty-fifth Annual Report of the Trustees, Superintendent and Engineer of the Water Works, I extract the following as a partial exhibit of the operations of this department during the past year, and its present status :

Distributing pipe laid in 1880—3 miles, 3,390 feet.

Main pipe " " " 1 " 1,776 "

Total amount of pipe in use Jan. 1, 1881, 125 miles, 3,148 feet.

Total quantity of water pumped during the year, 3,725,683,021 gallons.

Increase over 1879, 270,411,040 gallons.

Rate of increase, 7 82-100 per cent.

It is expected that the earnings of the department will be sufficient this year to provide a new boiler-house, boilers and engines now partially contracted for, and also to lay all distributing pipes the interests of the city may demand.

The following table shows the entire receipts and disbursements of the Water Works department since its establishment :

LEDGER BALANCES.		
Water Rent, Net Receipts since construction of Works.....		\$1,047,442 86
City of Cleveland, advanced by City Council to lay pipe		48,071 26
Bonds, outstanding Dec 31, 1880....		1,200,000 00
Bonds, redeemed Dec. 31, 1880.....		525,000 00
Cash in Office Dec. 31, 1880.....	\$ 802 69	
City Treasurer, balance on deposit...	39,745 67	
Construction, total cost of Works...	2,628,319 24	
New Engine and Boiler	7,619 23	
New Boiler House and Foundation }	4,890 36	
Water Meters account.....	17,152 34	
Interest.....	121,984 59	
	\$2,820,514 12	\$2,820,514 12

One hundred thousand dollars of the above outstanding bonds were paid January 1, 1881, and \$300,000 March 18th, 1881, which leaves the bonded debt \$800,000 and the bonds redeemed \$925,000.

LAW DEPARTMENT.

The report of Solicitor Heisley makes a very complete exhibit of the business done in this department during the six years it has been under his control. It has been a season prolific of litigation. Solicitor Heisley took charge of the office about the middle of April 1875. On the 1st day of January, 1875, there were pending in the several courts 90 cases in which

the city was a party in interest. There have since been instituted 773, making a total of 863 cases to look after. Of these there were disposed of during this time 641, leaving 222 still on the docket on the 1st day of January, 1881.

The total sum sought to be recovered from the city in the 641 disposed of cases, was \$446,441 01. The total amount recovered in them was \$13,930 22. Such a showing speaks well for the skill and industry of those who have managed these cases on the city's behalf.

It is gratifying to know that in the successor of Mr. Heisley we will have a gentleman in every respect amply qualified for the office, one whose previous experience in the same position will enable him to enter upon its duties with an adequate knowledge as to what they are and how to perform them. We may anticipate an eminently successful administration of the legal department of the City Government during the next four years.

CONCLUSION.

In conclusion I have no hesitancy in saying that every department of the City Government is being well managed ; that there has been a manifest desire on the part of the heads of the various departments to economize and to keep close watch of the interests intrusted to them. The officers are capable and efficient, and the results of their management satisfactory. I trust that the same good feeling and courtesy which have characterized the various Boards and City Council in the past may be continued, and that our mutual efforts to promote the welfare of our city may be crowned with success.

Respectfully Submitted,

R. R. HERRICK, Mayor.

REPORTS OF
CITY OFFICIALS.

ANNUAL REPORT
OF THE
CITY AUDITOR,
OF THE
CITY OF CLEVELAND,
FOR THE FISCAL YEAR ENDING DECEMBER 31, 1880,

CITY AUDITOR'S REPORT.

CLEVELAND, O., JANUARY 10th, 1881.

To the Honorable City Council:

GENTLEMEN:—I respectfully submit herewith the annual statement of the finances of the City of Cleveland for the year 1880, embracing tables showing as follows:

1. A general exhibit, Table No. 1.
2. An analysis of the resources and disbursements of the general funds for 1880, Table No. 2.
3. The condition of all funds and accounts, January 1st, 1881, Table No. 3.
4. Amount, maturity, and proceeds of sale of all bonds issued during the year 1880, Table No. 4.
5. Amount and maturity of general bonds outstanding January 1st, 1881, Table No. 5.
6. Amount and maturity of street improvement bonds outstanding January 1st, 1881, Table No. 6.
7. Amount and maturity of street damage bonds outstanding January 1st, 1881, Table No. 7.
8. Amount and maturity of sewer bonds outstanding January 1st, 1881, Table No. 8.
9. Recapitulation of bonds outstanding January 1st, 1881, Table No. 9.

10. A statement of certified estimates outstanding January 1st, 1881, Table No. 10.

11. A statement of principal and interest of all bonds maturing in each month of the year 1881, Table No. 11.

12. A comparative analyzed statement of disbursements from the general funds for 1875, 1876, 1877, 1878, 1879 and 1880, Table No. 12.

13. A comparative showing of rate of levy, valuation, amount levied, disbursements for ordinary expenses, total disbursements from general funds, interest on general debt, total debt and total par value of all sinking funds for ten years, from 1871 to 1880, inclusive, Table No. 13.

14. Tax levied for each general fund in the tax of 1880 to meet expenses of 1881, Table No. 14.

In presenting this report, I desire to call especial attention to Table 12, showing a comparison of items included therein, and to the following statements based upon the tables submitted.

ORDINARY EXPENSES OF 1880.

The ordinary expenses of the City Government, the Water Works and Cemeteries not included, for 1880, were \$784,017.62, being an increase over those of 1879 of \$51,727.18. This increase is analyzed as follows :

FUND.	Ordinary Expenses of 1879.	Ordinary Expenses of 1880.	Decrease.	Increase.
Bridge.....	\$ 30,004 03	\$ 33,166 46		\$ 3,162 43
Dredging.....	13,161 20	20,727 67		7,566 47
Fire.....	146,721 15	148,426 60		1,705 45
House of Correction, ..	92,905 26	113,134 31		20,229 05
Infirmary.....	40,447 46	38,887 11	\$ 1,560 35	
Lighting.....	83,271 40	88,113 87		4,842 47
Market.....	10,396 52	10,174 43	222 09	
General.....	106,563 77	107,280 54		716 77
Police Court.....	9,061 30	10,346 69		1,285 39
Police and Sanitary ...	143,027 35	145,713 26		2,685 91
Park.....	5,923 86	7,631 20		1,707 34
Street.....	50,807 14	60,415 48		9,608 34
Totals.....	\$ 732,290 44	\$ 784,017 62	\$ 1,782 44	\$53,509 62
Deduct decrease.....				1,782 44
Net increase of ordinary expenses in 1880 over 1879.....				\$51,727 18

BONDS ISSUED IN 1880.

The general bonds issued in 1880, shown in Table 4, were as follows :

Viaduct bonds to purchase right of way for complete rotation of drawbridge, issued under ordinance passed September 27, 1878.....	\$ 3,000 00
Funded debt bonds, issued under ordinances passed August 16th and November 15th, 1880, to pay part of debt for certain special improvements assumed by the city.....	308,000 00
Park bonds, issued under ordinance passed December 3d, 1872, to pay for land appropriated for Lake View Park.....	3,250 00
	<hr/>
Total general bonds issued.....	\$314,250 00

The special bonds issued in 1880 (reissued), shown in Table 4, were as follows :

For debt on various street improvements.....	\$ 57,000 00
For debt on various street damage accounts.....	24,000 00
For debt on various sewer accounts.....	8,000 00
	<hr/>
Total special bonds issued in 1880....	\$ 89,000 00
Total general bonds issued in 1880.....	314,250 00
	<hr/>
Total bonds issued in 1880.....	\$403,250 00

The issue of special bonds in 1880 was necessitated by the maturing of outstanding special bonds and interest in advance of the collection of corresponding special taxes.

The issue of Funded Debt bonds in 1880 was made to pay part of the debt for various special improvements, not collectible from specific property, and therefore assumed by the city at large.

SPECIAL DEBT ASSUMED BY CITY.

Out of the proceeds of the \$308,000.00 of Funded Debt bonds issued in 1880, the following credits have been given, as directed by ordinance, to special accounts for amount of debt assumed by the city.

To Becker avenue opening.....	\$ 2,887 86
To Broadway paving.....	77,893 07
To Custead avenue opening.....	120 00
To Grand avenue opening.....	3,040 01
To Junction street grading.....	20,887 49
To Kinsman street paving.....	98,491 13
To Russell avenue opening....	3,457 83
To sewers in districts 1 and 2, East Cleveland.....	8,004 00
To St. Clair street widening.....	23,788 12
To Wade Park avenue opening.....	10,423 08
To Woodland avenue opening.....	5,801 40
To Willson avenue opening, north of St. Clair street.....	3,343 45
To Willson avenue opening, Sawtell to Broadway	6,245 90
To Willson avenue grading, Maurice to Sawtell.....	3,358 21
To Willson avenue grading, Julia to Maurice.....	5,990 00
To Walworth run bridge improvement ..	34,788 09

Total special debt paid from proceeds of Funded Debt
bonds in 1880.....\$308,519 64

Like credits have been given, as directed by ordinance, to the following special accounts out of payment from the Sinking Fund of 1872 for amount of special debt assumed by the city.

To Allen street opening.....	\$ 7,012 73
To Bank street extension paving ..	6,968 97
To Bond street opening.....	61,830 00
To Central Place opening.....	26,689 00
To Marquette street opening.....	3,057 25
To Orange street opening.....	402 00

To Payne avenue opening.....	193,480 00
To Seneca street opening.....	16,816 75
To Seneca street grading and damages.....	1,503 25

Total special debt paid in 1880 from Sinking Fund of 1862 \$317,759 95

Total special debt paid in 1880 from proceeds of Funded

Debt bonds.....	308,519 64
-----------------	------------

Total special debt assumed and paid by the city in 1880. \$626,279 59

LEVY OF 1880.

The reduction of the levy in 1878, 1879 and 1880, as compared with the four previous years—Table 12—was accomplished mainly by a closer use of the money in hand. The cash in treasury December 31st, was, in 1877, \$395,706.43; in 1878, \$347,372.33, and in 1879, \$182,105.30.

The increase of 14-20 of a mill in the tax of 1880 over that of 1879 was necessitated by the absorption of cash in hand above shown, and by the inability of the Water Works Fund, by reason of its own extraordinary expenditures, to pay anything on interest account for 1881, as it had done in 1878, 1879 and 1880. It should also be remarked that the levy of 1880 might well have remained as low as that of 1879, had the increase in valuation of personal property on the duplicate of 1880—\$3,099,090—been foreseen when the levy of 1880 was made up in May last.

CITY DEBT,

The entire debt of the city, as shown in the Annual Report for 1879, was as follows:

General bonds outstanding January 1st, 1880.....	\$6,201,000 00
Special bonds outstanding January 1st, 1880.....	2,390,342 00
Notes for purchase of Pelton Park.....	50,000 00
Certified estimates unpaid.....	16,615 04
Overdrawn special accounts.....	143,880 66

Total debt, January 1st, 1880..... \$8,801,595 70

The aggregate debt of the city January 1st, 1881, shown in Recapitulation No. 3, attached to Table 3, is as follows :

General bonds outstanding January 1st, 1881.....	\$6,326,250 00
Special bonds outstanding January 1st, 1881.....	1,589,000 00
Notes for Pelton Park unpaid.....	33,333 34
Certified estimates unpaid.....	2,283 34
Overdrawn special accounts.....	116,072 12
Total debt January 1st, 1881.....	\$8,066,938 80
Reduction of total debt in 1880.....	\$ 734,656 90

SINKING FUNDS.

The maturing debt paid in 1880 from General Sinking Fund.\$	95,000 00
The maturing debt paid in 1880 from Sinking Fund of 1862	392,759 95
Total maturing debt paid in 1880 from all Sinking Funds \$	487,759 95
Credit balance of General Sinking Fund January 1, 1881....	5,507 36
Par value of Viaduct Sinking Fund January 1, 1881—	
In hands of Sinking Fund Commissioners.....	359,798 98
In hands of City Treasurer.....	1,209 25
Par value of Sinking Fund of 1862 January 1, 1881	1,596,265 53
Aggregate par value of all Sinking Funds January 1st, 1881	\$1,962,781 12

UNAPPROPRIATED MONEYS.

In section 2710 of the Revised Statutes of Ohio is the following requirement : " All money belonging to the corporation and not specifically appropriated by law, shall be used for the purpose of reducing the funded debt of the corporation, if there be one."

The requirement here expressed is not only binding on the city, but marks out a policy best for the interest of its citizens. Although this rule has not heretofore been followed, there are good reasons why it should now and hereafter be pursued.

Returning business activity and prosperity now demand that the city should make all practical provision for its outstanding

debt, and experience has shown that unappropriated moneys, idle in the treasury, tempt to unwarrantable expenditure ; whereas, if these moneys were passed to the credit of the General Sinking Fund, and committed to the management and control of the Sinking Fund Commissioners, not only their unwise expenditure would be prevented, but their earnings would materially relieve taxation.

RELATION OF THE BONDS TO THE CITY.

Important public interests of the people of Cleveland are immediately committed to eleven boards—Cemeteries, Education, Fire, Health, Infirmary and Out-door Relief, Improvements, Parks, Police, Sinking Funds, Water Works, and Work-house and House of Refuge and Correction.

In regard to these boards, I desire to suggest the inquiry whether or not it is desirable to establish uniformity of relation between each of them and the City Government, conferring on each the same organization and powers, holding each to the same limitations as to appointment and salary of under officers and men, the custody and disbursement of money, the incurring of liability against the city, the approval and payment of claims, the purchase, sale and lease of real estate, and in all other material respects.

As at present organized, these boards differ widely in the above particulars and many others, some being quite independent of the City Government, and others partially so.

The result is, that the powers and limitations of the various boards are not well understood by citizens generally, nor by members of Council and city officers, and peculiar difficulty exists, not only in determining what are and what are not lawful claims and payments, but also in presenting a complete exhibit of city finances. Whereas, if all the boards were made uniform in organization, powers and limitations, and in their relation to the Council and City Government, many irregularities would be prevented, and greater harmony and unity of administration secured.

I therefore respectfully suggest that the whole subject of the relation of these boards to the Council and to the city be committed to the Council Committee on Legislature, to report what legislation, if any, is advisable to secure the uniform working of the various boards and their uniform relation to the other branches of the City Government.

The above inquiry is suggested, not because any of the boards are badly administered, nor because there is imminent danger that any of them will be, but for the sake of attaining such simplicity and uniformity in their structure and administration as to guard against irregularity and errors, both on their part and on the part of other branches of the City Government.

HENRY FORD,

City Auditor.

TABLE NO. 1.

GENERAL EXHIBIT OF THE RESOURCES AND DISBURSEMENTS OF THE CITY OF CLEVELAND FOR THE YEAR 1880.

<i>Amount in the hands of the City Treasurer Jan. 1, 1880, viz:</i>		
Balance credit Water Works Department.....	\$ 47,522 82	
Balance credit all other funds.....	128,656 78	
Bonds held as guarantee against decay of pavem'ts..	5,826 30	
		\$ 182,105 30
<i>Receipts for the year 1880 from all sources, viz:</i>		
Proceeds of general taxes.....	\$1,069,097 48	
Proceeds of special taxes	508,023 91	
Proceeds of sale of bonds.....	425,408 25	
<i>Received from Sinking Fund Commissioners:</i>		
To pay general bonds.....	95,000 00	
To pay special debt assumed by the city.....	317,759 95	
Receipts to Bridge Fund.....	14,875 93	
Receipts to Fire Department.....	1,386 00	
Receipts to House of Correction	83,235 10	
Receipts to Infirmary Fund.....	15,089 46	
Receipts to Police Department.....	803 81	
Receipts to Market Fund (rents, etc.).....	21,009 71	
Receipts to Street Department	4,257 82	
Receipts to Sanitary Fund	284 33	
Receipts from Board of Education for special taxes..	6,802 15	
Receipts from Police Court, fines and costs.....	12,297 94	
Receipts from City Hall, Viaduct, and other rents...	10,763 28	
Receipts from dog tax.....	3,751 00	
Receipts from water rents	204,563 43	
Receipts from hay scales, pounds, licenses, etc.....	7,134 91	
Receipts from Kinsman St. Railroad Co.....	51,853 94	
Receipts from Broadway & Newburgh St. R. R. Co...	4,101 18	
Receipts from sale of Frankfort St. Armory	16,200 00	
Receipts from sale of steam road roller.....	1,000 00	
Receipts for account of Steele & McMahon (Interest).	436 62	
Receipts for account of John E. McMahon (Interest).	947 86	
Receipts from miscellaneous sources	1,306 37	
Total receipts for the year 1880		\$ 2,878,022 52
		\$ 3,060,197 82

TABLE No. 1,—*Continued.*

<i>Amount of expenditures for the year 1880.</i>		
Ordinary running expenses City Government	\$ 784,017 62	
General bonds paid.....	95,000 00	
Interest on General bonded debt.....	402,082 50	
Dredging bonds (issued in former years) and interest	23,800 00	
Special debt, including \$5,101 88, for pavement on Superior street through Monumental Park.....	1,076,912 93	
<i>Permanent improvements—</i>		
Armory building.....	13,519 95	
Infirmiry building.....	5,798 02	
New lamp-posts and frames.....	2,271 35	
18th Ward Market.....	1,599 95	
Police Court, alterations in 4th prec. station.....	971 00	
Broadway culvert.....	2,081 26	
Paid L. S. & M. S. R. R. Co. for land for Parks.....	3,246 00	
Costs of Court, etc., paid from General Fund.....	2,473 35	
Paid for Pelton Park.....	16,696 06	
Paid to Board of Education balance of School Con- struction Fund.....	3,507 85	
Paid to Sinking Fund Commissioners.....	98,190 10	
Viaduct expenses.....	4,682 30	
Total of pay ordinances passed during 1880.....		\$2,530,787 84
Certified estimates, \$14,331.70; interest, \$5,927.71.....	20,259 41	
Water Works Department expenses.....	163,843 73	
Taxes refunded.....	58,999 58	
Taxes on City Hall.....	6,506 73	
Miscellaneous expenses.....	750 48	250,368 93
Total expenditures for the year 1880.....		\$2,787,156 77
<i>Amount in hands of the City Treasurer Jan. 1, 1881.</i>		
Water Works Fund.....	48,242 02	
All other funds.....	217,448 35	
Bonds held in trust by the city.....	7,350 68	273,041 05
		\$3,060,197 82

See Recapitulation No. 2, Table 3.

TABLE No. 2.

ANALYSIS OF THE RESOURCES AND DISBURSEMENTS OF
THE GENERAL FUNDS FOR 1880.

ARMORY FUND.		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 7,825 34	
Transfer from Market Fund.....	6,000 00	
Armory rents.....	305 00	
		\$ 14,130 34
DISBURSEMENTS.		
Amount paid for work done in 1880.....		13,519 95
Cash on hand January 1, 1881.....		\$ 610 39
BRIDGE FUND.		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 857 55	
Taxes.....	17,759 09	
City's proportion of county's taxes.....	14,109 63	
From West Side Street Railroad Company.....	752 00	
Miscellaneous receipts.....	14 30	
		\$ 33,492 57
DISBURSEMENTS.		
Ordinary expenses.....		33,166 46
Cash on hand January 1, 1881.....		\$ 326 11
CUYAHOGA RIVER DREDGING.		
(Above U. C. W. Bridge.)		
RESOURCES.		
General tax.....	\$ 17,759 09	
Special tax.....	13,050 58	
		\$ 30,809 67
DISBURSEMENTS.		
(Overdrawn January 1, 1880).....	2,731 55	
Ordinary expenses.....	4,325 95	
Payment of bonds issued in 1876.....	6,000 00	
Payment of bonds issued in 1877.....	5,000 00	
Payment of bonds issued in 1878.....	8,000 00	
Payment of interest on bonds issued in 1876-7-8.....	4,800 00	
		\$ 30,857 50
Amount overdrawn January 1, 1881.....		47 83

TABLE No. 2—Continued.

CUYAHOGA RIVER DREDGING. (Below U. C. W. Bridge.)		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 1,233 02	
Special taxes.....	15,259 02	
		\$ 16,492 04
DISBURSEMENTS.		
Ordinary expenses.....		16,401 72
Cash on hand January 1, 1881.....		\$ 90 32
CEMETERY FUND.		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 3,648 30	
		\$ 3,648 30
DISBURSEMENTS.		
Payment of special taxes.....		385 12
Cash on hand January 1, 1881.....		\$ 3,263 18
FIRE DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 13,942 93	
Taxes.....	134,960 12	
Cash deposits by secretary.....	1,386 09	
Warrants credited back.....	852 34	
		\$ 151,150 48
DISBURSEMENTS		
Ordinary expenses.....		148,426 60
Cash on hand January 1, 1881.....		\$ 2,723 88
GENERAL FUND.		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 12,362 14	
General taxes.....	99,455 20	
Reimbursement from special accounts.....	8,972 85	
City Hall and other rents.....	8,600 78	
Proceeds of sale of Frankfort Street Armory.....	16,200 00	
Receipts from hay scales, pounds, licenses, etc.....	7,124 91	
Warrants credited back.....	85 81	
		\$ 152,811 69
DISBURSEMENTS.		
Ordinary expenses.....	\$ 107,280 54	
Costs of Court.....	2,473 35	
Tax on City Hall for 1879.....	6,508 73	
Special taxes on city property.....	1,141 57	
		\$ 117,402 19
Cash on hand January 1, 1881.....		\$ 35,409 50

TABLE No. 2—Continued.

HOUSE OF CORRECTION.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 22,906 17	
General tax	14,207 27	
From county, for care of county prisoners	5,499 10	
Cash deposits by Superintendent	77,736 00	
Warrants credited back	86 58	
		\$ 120,436 12
DISBURSEMENTS.		
Ordinary expenses		113,134 31
Cash on hand January 1, 1881		\$ 7,300 81
INTEREST FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 4,015 84	
General tax	348,078 26	
From Kinsman Street Railroad Company	13,064 39	
Accrued interest on general bonds	18,484 76	
From Water Works Fund	40,000 00	
Miscellaneous receipts	15	
		\$ 423,643 40
DISBURSEMENTS.		
Interest on bonded debt		402,062 50
Cash on hand January 1, 1881		\$ 21,580 90
INFIRMARY FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 37,723 31	
General tax	10,655 46	
From county (board of paupers)	8,866 57	
Receipts from licenses, etc.	6,105 17	
Warrants credited back	90 72	
		\$ 63,468 23
DISBURSEMENTS.		
Ordinary expenses	\$ 38,887 11	
Permanent improvements	5,768 02	
		\$ 44,655 13
Cash on hand January 1, 1881		\$ 18,813 10

TABLE No. 2—*Continued.*

LIGHTING FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 19,701 08	
General tax	63,932 74	
Dog tax	3,751 00	
Transfer from Market Fund	7,500 00	
Miscellaneous receipts	34 19	
		\$ 94,919 01
DISBURSEMENTS.		
Ordinary expenses	\$ 88,113 87	
New lamp posts, frames, etc.	2,271 35	
		\$ 90,385 22
Cash on hand January 1, 1881		\$ 4,533 79
MARKET FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 6,106 14	
Market rents, premiums, etc.	21,609 71	
		\$ 27,714 85
DISBURSEMENTS.		
Ordinary expenses	\$ 10,174 43	
Balance paid for Eighteenth ward market	1,596 95	
Transfer to Armory Fund	6,000 00	
Transfer to Lighting Fund	7,500 00	
Special taxes	1,178 20	
		\$ 26,449 58
Cash on hand January 1, 1881		\$ 1,265 27
POLICE COURT.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 844 83	
Fines collected by Police Clerk	9,388 86	
Fines collected at House of Correction	1,918 08	
Proceeds of sale of land	300 00	
Warrants credited back	1 00	
		\$ 13,112 77
DISBURSEMENTS.		
Ordinary expenses	\$ 10,346 00	
Permanent improvements	971 00	
		\$ 11,317 00
Cash on hand January 1, 1881		\$ 1,796 08

TABLE No. 2—Continued.

POLICE DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 8,368 11	
General tax	142,072 75	
Receipts on dead animal contract	316 67	
Receipts from music permits	308 00	
Receipts from licenses, etc.	18 00	
Receipts from pest house farm rents	100 00	
Warrants credited back	63 14	
		\$ 151,209 76
DISBURSEMENTS.		
Ordinary expenses	\$ 138,176 18	
Transfer to Sanitary Fund	7,300 00	
		\$ 145,476 18
Cash on hand January 1, 1881		\$ 5,793 49
PARK FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 3,001 09	
General tax	7,103 64	
Proceeds of temporary loan	3,250 00	
Warrants credited back	3 80	
		\$ 13,358 53
DISBURSEMENTS.		
Ordinary expenses	\$ 7,631 20	
Amount paid Lake Shore & Michigan Southern R'y...	8,246 00	
		\$ 10,877 20
Cash on hand January 1, 1881		\$ 2,481 33
STREET DEPARTMENT.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 4,663 18	
General tax	60,380 92	
Collections for street repairs	2,725 50	
From Standard Oil Company, on account of Broadway culvert	1,500 00	
Miscellaneous receipts	24 92	
Warrants not used	7 40	
		\$ 69,301 92
DISBURSEMENTS.		
Ordinary expenses	\$ 60,415 48	
Paid on account of Broadway culvert	2,081 26	
		\$ 62,496 74
Cash on hand January 1, 1881		\$ 6,805 18

TABLE No. 2 — *Continued.*

SANITARY FUND.		
RESOURCES.		
Transfer from Police Fund	\$ 7,300 00	
Cash deposits by Secretary	284 33	
		\$ 7,584 33
DISBURSEMENTS.		
For seven months ending December 31, 1880		7,587 08
Cash on hand January 1, 1881		\$ 47 25
SINKING FUND.		
(For general bonds.)		
RESOURCES.		
Cash on hand January 1, 1880	\$ 20,895 18	
General Tax	78,140 01	
Proceeds of sale of steam road roller	1,000 00	
Interest on deposits	472 22	
		\$ 100,507 36
DISBURSEMENTS.		
Payment of general bonds		95,000 00
Cash on hand January 1, 1881		\$ 5,507 36
VIADUCT SINKING FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 53,634 99	
Valley R. R. bonds	265,000 00	
General Tax	17,759 09	
Sale of Viaduct bonds	1,910 00	
Viaduct property rents	252 50	
Earnings for the year as shown by the Sinking Fund Commissioners' report	22,451,65	
		\$ 361,008 23
Cash on hand January 1, 1881		\$ 361,008 23
Amount in the hands of Sinking Fund Commissioners	\$ 359,798 98	
Amount in the hands of the City Treasurer	1,209 25	
Total value of Viaduct Sinking Fund		\$ 331,008 23

TABLE NO. 2—Continued.

VIADUCT FUND.		
RESOURCES.		
Cash on hand January 1, 1880.....	\$ 2,491 31	
Proceeds of sale of bonds.....	3,213 25	
		\$ 5,704 56
DISBURSEMENTS.		
Payment to Myers, Osborne & Co., by order City Council	\$ 4,644 88	
Advertising sale of bonds.....	37 42	
		4,682 30
Cash on hand January 1, 1881.....		\$ 1,022 26
WATER WORKS FUND.		
RESOURCES.		
Cash on hand January 1, 1880	\$ 47,522 32	
Water rents, etc.....	204,563 43	
		\$ 252,085 75
DISBURSEMENTS.		
Permanent improvements	\$ 100,000 15	
Ordinary expenses.....	63,843 58	
Amount paid to Interest Fund	40,000 00	
		203,843 73
Cash on hand January 1, 1881.....		\$ 48,242 02

TABLE NO. 3.
STATEMENT OF THE CONDITION OF THE VARIOUS FUNDS
OF THE CITY OF CLEVELAND JAN. 1, 1881.

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimate Outstanding Jan. 1, 1881.
Atlantic street, grading and culverts	1,000 00	
Armory Fund.....		
Arlington street, opening		
Allen street, opening	2,500 00	
Auburn street, grading		
Burton street, grading and damages		
Bond street, grading and paving.....		
Bond street, opening.....	101,000 00	
Brecksville road, grading, etc.		
Becker avenue, grading, etc		
Becker avenue, widening.....	1,500 00	
Bentley alley, opening		
Broadway, paving, Ohio to Independence.....		
" " Independence to Union.....		
" " Union to Miles.....	92,300 00	
" " Miles to Woodland Hills		
Brownell street, paving.....	5,000 00	
Buckley street, grading and damages		
Bolivar street, paving etc.....		
Beckwith street, grading, etc.....		
Birch street.....		
Beech street, sewer.....		
Bridge Fund.....		
Bank street, extension, paving.....		
Bailey street, opening	2,800 00	
Broadway, sewer district.....		
Bills Receivable—see statement following.....		
Cemetery Fund.....		
<i>Carried forward</i>	206,100 00	

TABLE No. 3—Continued.

Balance Debit Jan. 1, 1890.	Balance Credit Jan. 1, 1890.	Disburse- ments for 1890.	Receipts for 1890.	Amounts due from Street R. R. Companies.	Amounts overdrawn Jan. 1, 1891.	Cash on hand Jan. 1, 1891.
450 96		1,889 00	726 09		1,613 87	
	7,825 34	13,519 95	6,305 00			610 39
409 48					409 46	
1,712 05		9,036 16	7,012 73		3,735 48	
	51 73	51 73				
444 72					444 72	
948 13		152 46	1,500 59			400 00
	1,541 95	60,198 89	71,004 27			7,037 33
	22 24	22 24				
45 95			45 95			
809 44		2,198 49	2,929 12		138 81	
785 39			538 88		226 51	
6,973 94					6,973 94	
	10,113 11	41,234 86	10,728 25		20,302 50	
	2,180 00	89,309 75	77,209 76	15,905 75	9,859 99	
104 96					104 96	
	4,283 82	5,700 00	4,979 50			3,565 32
0 63		453 40	460 03			
	481 50	481 50				
782 79		749 00	438 19		1,103 60	
	316 22	316 22				
53 76		535 00	588 61		15	
	857 55	33,166 46	32,635 02			326 11
13 97		9,048 02	9,411 02			349 63
269 44		2,122 00	1,848 29		543 15	
994 26		2,996 00	3,817 72		172 54	
	3,648 30	385 12				3,263 18
14,855 85	31,323 76	270,596 25	222,029 02	15,905 75	45,720 68	15,551 96

TABLE NO. 8—Continued.

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimate Outstanding Jan. 1, 1881.
<i>Brought forward.</i>	200,100 00	
Central Way, branch sewer.....		
Champlain street.....		
Custead avenue, opening	1,000 00	
Central place, opening.	73,500 00	
Central place, grading and curbing.....		
Crawford road		
Clinton street.....		
Commercial street, sewer.....	4,000 00	
Cheshire street.....		
Cedar street, Perry to Willson		
Chestnut ridge, street macadamizing.....	16,500 00	
Commercial street.....	2,000 00	
Case avenue, Euclid to Woodland.....		
Case avenue Euclid to Payne	5,400 00	
Cedar avenue, macadamizing—East Cleveland.	12,000 00	
Cuyahoga river, dredging—above U. C. W. Bridge.....	61,000 00	
“ “ “ below “ “		
Canal Fund.....	275,000 00	
Courtland street, straightening.....		
Central way, bridge	4,000 00	
Central way, masonry.....	8,000 00	
Columbus street, paving, etc.		
Columbus, Pearl and Walworth run bridge improvement	65,400 00	
Clark avenue, grading, etc.....		
Dunham avenue, sewer.....		
Detroit street, Kentucky to 200 feet West of Waverly.....	6,800 00	
Delinquent Sidewalks.....		
<i>Carried forward.</i>	740,700 00	

TABLE No. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880.	Disburse- ments for the Year 1880.	Receipts for the Year 1880.	Amount due from Street R. R. Companies	Amount Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
14,855 85	31,323 76	279,566 25	232,929 02	15,905 75	45,720 08	15,551 96
	1,408 29	1,141 85				266 94
814 38			814 38			
2 32		120 00	1,084 53			912 21
	1,805 28	27,405 60	30,508 73			4,498 41
120 51			120 51			
4 33			4 33			
	234 82	234 82				
	292 42	2,420 06	2,049 38		78 20	
9 50			9 50			
	835 07	250 00	75 29			660 36
	4,165 82	11,958 00	7,196 68		565 50	
	483 11	2,280 00	2,574 75			777 86
227 78			227 78			
	485 61	4,724 00	5,330 47			1,098 08
	674 94	3,476 60	2,758 69		47 34	
2,731 55		28,125 95	30,809 67		47 83	
	1,233 02	401 72	15,259 62			90 32
	959 14		16 50			975 64
	347 26	347 26				
85 02		4,752 40	4,951 43			114 01
	22 76	3,825 60	4,511 58			708 74
17,810 61		16,122 27	23,935 60	9,701 21	9,997 28	
	32 91	34,821 00	34,788 09			
			168 45			168 45
		2,155 88	2,244 95			89 07
1,053 73		7,538 00	8,485 46		106 27	
1,304 20		1,491 44	54 66		2,740 98	
39,019 73	43,804 21	449,157 54	410,951 05	25,606 96	59,334 11	25,912 05

TABLE NO. 3—*Continued.*

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimates Outstanding Jan. 1, 1881
<i>Brought forward.</i>	740,700 00	
Doan street.....		
East Madison avenue, opening and grading damages....		
East Madison avenue, macadamizing.....		
Erie street, paving, etc.....		
Eagle street, paving, grading, sewer and water con- nections.....	3,000 00	
Euclid avenue, macadamizing, Fairmount to city limits..	18,100 00	
Euclid avenue, widening.....	2,000 00	
Euclid avenue, repaving—Perry to Willson.....		
Euclid avenue, west of Erie.....	28,000 00	
Euclid avenue, paving, Willson to Fairmount.....	37,000 00	
Elm street.....		
East Prospect street, opening.....	4,500 00	
Erie street, damages.....		
Fire Department.....		
Fairfield street.....		
Fulton street.....		
Forest street, grading damages, etc.....		
Franklin Circle, paving.....		
Fir street, grading, opening and grading damages.....		
Fairmount street, macadamizing.....	4,600 00	
Funded debt, bonds, etc.....	1,758,000 00	
General Fund—see statement following.....		
German street, grading, etc.....		
Giddings Avenue, opening.....		
Garden street, paving.....		
Gordon avenue, grading, etc.....		
<i>Carried forward.</i>	2,595,900 00	

TABLE NO. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880.	Disburse- ments for the Year 1880	Receipts for the Year 1880.	Amount due from Street R. & Companies.	Amount Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
38,019 78	43,804 21	449,157 54	410,951 05	25,806 96	58,384 11	25,912 05
375 50		1,424 70	1,800 20			
	538 15	538 15				
	2,338 87	1,672 11	8 42			675 18
	356 82	200 00				156 82
397 97		2,885 00	3,516 38			233 41
2,612 56		6,494 54	8,330 98		777 14	
104 35		2,280 00	2,257 44		126 91	
480 95			41 08		438 07	
166 47		11,200 00	11,191 74		174 73	
	1,460 57	11,763 38	9,316 25		983 56	
1,013 29			1,013 29			
	256 06	1,385 00	18 05		1,110 89	
173 13			94 33		78 80	
	13,942 93	148,426 60	137,207 55			2,723 88
	575 32	125 32				450 00
	405 64	3,283 31	2,877 67			
	1,200 02	500 02				700 00
196 68			196 68			
	87 96	87 98				
	877 96	1,336 00	1,129 77			671 73
	12,362 14	117,402 19	140,449 55			35,409 50
	4 75	318 00	298 98		14 27	
103 81		1,391 00			1,494 81	
	4,636 32	200 00				4,436 32
	29 60	29 60				
44,645 49	82,875 34	762,068 44	730,700 29	25,806 96	64,537 19	71,368 89

TABLE No. 3—*Continued.*

	Amount of Bonds Outstanding Jan. 1, 1880.	Amount of Certified Estimate Outstanding Jan. 1, 1880.
<i>Brought forward.</i>	2,585,900 00	
Grand avenue, grading, etc.	8,800 00	
Grand avenue, opening.	1,000 00	
Garden street, sewer		
Hough avenue.		
Huron street, grading, Erie to Euclid		
Herman street, opening, grading and grading damages	1,900 00	
House of Correction	184,000 00	
Hamilton street, grading, etc.	1,500 00	
Hamilton street, grading damages.		
Haight street, opening		
Hodge street, (now Waverly avenue)		
Hemlock street, opening.		
Hodge avenue, damages.		
Hodge street, damages.		
Herald street, grading, etc.	19,000 00	
Herald street, damages.		
Harvard street, grading, etc.		
Harvard street, grading damages.		
Hodge avenue		
Iona street, grading.		
Isabella street, grading.		
Infirmary Fund.	42,000 00	
Interest Fund.		
Jennings avenue, paving.	2,300 00	
Junction street, grading, etc.		
Jefferson street, paving, etc.		
Kennard street, sewer.		
<i>Carried forward.</i>	2,856,400 00	

TABLE No. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880.	Disburse- ments for the Year 1880.	Receipts for the Year 1880.	Amount due from Street R. & Companies	Amount Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
44,645 49	82,875 84	762,098 44	730,700 29	25,606 96	64,537 19	71,368 89
.....	1,821 33	9,479 21	7,447 54	.....	210 34	.....
.....	818 30	4,730 59	3,068 64	.....	843 65	.....
2,291 00	.....	2,140 00	2,396 08	.....	2,034 92	.....
3,185 88	.....	3,763 79	3,726 15	.....	3,223 52	.....
86 76	.....	.....	86 76	.....	.....	.....
1,568 10	.....	962 00	2,453 62	.....	76 48	.....
.....	22,906 17	113,134 31	97,528 95	.....	.....	7,300 81
29 51	.....	832 00	825 33	.....	36 18	.....
421 29	.....	31 75	453 04	.....	.....	.....
121 60	.....	.....	.....	.....	121 60	.....
337 39	.....	.....	18 21	.....	319 18	.....
.....	610 03	214 30	.....	.....	.....	395 73
274 08	.....	.....	.....	.....	274 03	.....
572 18	.....	.....	.....	.....	572 18	.....
.....	1,291 66	39,459 38	38,789 88	.....	.....	622 16
.....	3 82	.....	262 04	.....	.....	265 86
317 00	.....	2,883 00	2,915 04	.....	284 90	.....
109 72	.....	856 00	896 08	.....	69 64	.....
.....	621 65	.....	.....	.....	.....	621 65
.....	.....	.....	149 60	.....	.....	149 60
.....	.....	.....	151 63	.....	.....	151 63
.....	37,723 31	44,655 13	25,744 92	.....	.....	18,813 10
.....	4,015 84	402,082 50	419,627 56	.....	.....	21,500 90
1,506 12	.....	3,883 00	2,891 88	186 29	2,497 24	.....
.....	4,362 92	20,022 58	40,887 49	.....	.....	5,227 83
.....	232 75	232 75	.....	.....	.....	.....
191 25	.....	642 00	755 58	.....	77 07	.....
55,957 22	157,283 12	1,412,102 69	1,361,776 31	25,793 25	75,178 78	120,478 16

TABLE No. 3,—Continued.

	Amount of Bonds Outstanding Jan. 1, 1891.	Amount of Certified Estimate Outstanding Jan. 1, 1891.
<i>Brought forward.</i>	2,856,400 00	
Kinsman street, paving, culverts, etc	95,000 00	
Kinsman street, repaving	1,000 00	
Lincoln avenue, grading and culverts	1,500 00	
Lincoln avenue, opening		
Lorain street, paving (old account)		
Lake street, paving		
Lexington street		
Lorain street, paving, Waverly to Chestnut Ridge		
Lighting Fund		
Market Fund		
Marcy avenue, grading, etc		
Marcy avenue, damages		
Main street		
Mulberry street		
March street, opening		
Miles street, grading		
Miles street, damages		
Marquette street, opening	10,000 00	
McMahon John, E		
North Woodland avenue, damages		
Ontario street, paving		
Old River street		
Orange street, opening and extending	6,700 00	
Police Court		
Police Department		
Pearl street, damages		
Pearl street, paving		
<i>Carried forward.</i>	2,970,600 00	

TABLE No. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880.	Disburse- ments for the Year 1880.	Receipts for the Year 1880.	Amounts due from Street R. & Companies.	Amount Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
55,657 32	157,283 12	1,412,102 08	1,361,776 31	25,793 25	75,178 78	128,478 16
4,958 80		94,912 60	105,542 39			5,670 99
	35 10	6,017 00	1,381 90		4,600 00	
	790 17	1,710 00	1,648 08			728 20
1,237 89		2,247 00	2,139 10		1,345 79	
11 25			11 25			
431 27		10,477 13	9,983 37		975 03	
	55 88	55 88				
	925 29	2,404 42	3,283 08			1,806 95
	19,701 08	90,385 22	75,217 93			4,533 79
	6,105 14	28,449 58	21,609 71			1,235 27
	245 31	245 31				
	293 19	293 19				
682 20			682 20			
163 35		1,080 00			1,223 35	
2,850 34		2,140 00	1,252 96		3,737 38	
	123 37	1,928 00	1,781 99		20 64	
449 00			9 42		439 58	
	5 24	5,086 00	5,110 05			29 29
	3,989 62		987 86			4,977 48
	942 15	300 00				642 15
	911 36	3,124 39	2,513 03			300 00
	996 74	2,213 06	1,316 32			
	101 87	594 00	625 56			138 43
	844 83	11,317 69	12,267 94			1,795 08
	8,393 11	145,476 18	142,876 56			5,793 49
	45 05					45 05
4,924 70			572 35	484 96	4,352 35	
71,306 12	201,787 62	1,820,637 58	1,752,539 31	26,278 21	91,872 90	154,196 33

TABLE NO. 3—*Continued.*

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimate Outstanding Jan. 1, 1881.
<i>Brought forward.</i>	2,970,600 00	
Perry street, paving.	3,500 00	
Park Fund	318,250 00	
Payne avenue, opening	311,600 00	
Prospect street, repaving, Erie to Perry	10,200 00	
Prospect street, paving, Perry to Willson.....		
Quincy street, grading, etc		
Quincy street, damages.....		
Ridge street.....		
Russell avenue, grading and extending.....	3,000 00	
Sanitary Fund		
Sinking Fund—general bonds		
School Construction Fund		
Street Intersections		
Street Department.....		
Steel & McMahon		
Special road fund		2,288 34
Seneca street, opening, grading and grading damages	31,000 00	
Seneca street, paving.....	4,000 00	
Superior street, paving, Erie to Perry		
Superior street, repaving, Park to Erie ..		
Superior street, widening	4,000 00	
St. Clair street, paving etc	17,100 00	
Superior street, (O'Connor road to 1,200 feet west)		
St Clair street, widening	8,000 00	
Summit street, opening.....	26,300 00	
Seyler alley, opening.....		
School Bond account	350,000 00	
<i>Carried forward.</i>	4,057,550 00	2,288 34

TABLE No. 3.—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880	Disburse- ments for the Year 1880.	Receipts for the Year 1880	Amount due from Street R. & C. Companies.	Amount Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
71,365 12	201,787 62	1,820,637 68	1,752,539 31	26,278 21	91,872 90	154,198 33
	1,500 71	2,064 00	2,265 67			1,702 88
	3,001 09	10 877 20	10,357 44			2,481 33
	2,825 26	197,749 75	292,945 87			98,020 88
	2,423 05	6,171 00	6,242 43			2,464 48
	2,264 68		20 64			2,285 32
	337 33	1,106 00	666 17		162 50	
	36 80		62 52			98 91
	541 95	541 95				
2,217 35		5,662 56	7,328 63		551 28	
		7,537 08	7,584 39			47 25
	20,805 13	95,000 00	79,612 23			5,507 38
	3,507 85	3,507 85				
7,087 73		38,205 64	67,803 03			22,509 66
	4,663 18	62,496 74	64,638 74			6,806 18
	1,996 58		436 62			2,373 20
	3,006 66	713 21	324 93			2,618 38
	3,753 50	25,108 74	32,914 78			11,556 54
	2,346 61	6,165 00	6,218 41			2,400 02
828 31			828 31			
	71 88	71 88				
41 71		6,360 00	4,068 00		2,318 71	
3,437 44		7,728 00	15,584 24	144 87	581 20	
		429 75	429 75			
	2,124 59	34,572 03	31,964 12		473 82	
	3,622 47	10,151 00	6,008 57		524 96	
	633 79					633 79
59,978 66	261,220 32	2,242,916 78	2,390,859 24	26,423 08	96,479 87	316,734 01

TABLE No. 3—*Continued.*

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimate Outstanding Jan. 1 1881.
<i>Brought forward.</i>	4,057,550 00	2,283 84
St. Paul street, grading and damages.....	1,700 00	.....
St. Paul street, grading damages.....	.....	.....
Slater street, opening.....	6,900 00	.....
Stone's Levee, paving, etc.....	.....	.....
Sewer districts 1 and 2, East Cleveland.....	27,400 00	.....
Sewer district 3, East Cleveland.....	.....	.....
Superior street, sewer, E. of Doan Brook.....	3,300 00	.....
Superior street, sewer, W. of Doan Brook.....	.....	.....
Sewer district No. 1.....	28,300 00	.....
Sewer district No. 2.....	35,700 00	.....
Sewer district No. 3.....	12,400 00	.....
Sewer district No. 4.....	1,600 00	.....
Sewer district No. 5.....	34,200 00	.....
Sewer district No. 6.....	.....	.....
Sewer district No. 7.....	223,900 00	.....
Sewer district No. 8.....	.....	.....
Sewer district No. 9.....	.....	.....
Sewer district No. 10.....	.....	.....
Sewer district No. 11.....	.....	.....
Sewer district No. 12.....	28,100 00	.....
St. Clair street, sewer.....	17,600 00	.....
Soovill avenue, grading and curbing.....	.....	.....
Tod street.....	.....	.....
University street, grading, etc.....	.....	.....
University street, opening.....	.....	.....
Viaduct Sinking Fund, see statement following.....	.....	.....
Viaduct Fund.....	2,128,000 00	.....
<i>Carried forward.</i>	6,616,650 00	2,283 84

TABLE NO. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880	Disburse- ments for the Year 1880.	Receipts for the Year 1880.	Amounts due from Street R. & Companies.	Amount Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
89,978 66	261,290 82	2,342,916 76	2,390,859 24	26,423 08	96,479 87	315,734 01
.....	24 97	950 00	899 32	.....	25 71	.....
.....	94 05	94 05	.....	.....	.....	.....
.....	7,968 99	6,017 00	1,912 68	.....	.....	3,864 67
.....	677 87	2,340 00	1,768 97	.....	.....	108 84
488 64	.....	12,315 70	14,909 99	.....	.....	2,105 65
.....	654 82	449 60	.....	.....	.....	205 22
1,133 95	.....	2,430 20	2,985 82	.....	628 33	.....
14 87	.....	18	15 00	.....	.....	.....
1,019 28	.....	8,401 00	9,441 01	.....	.....	20 63
334 51	.....	14,346 00	13,639 75	.....	1,040 78	.....
7,159 71	.....	12,715 97	22,080 48	.....	.....	1,204 80
.....	3,359 19	920 00	.....	.....	.....	2,439 19
6,757 07	.....	12,024 00	19,685 09	.....	.....	904 02
.....	768 05	.....	.....	.....	.....	768 05
1,980 41	.....	33,400 32	36,331 40	.....	.....	940 67
.....	677 63	.....	.....	.....	.....	677 63
.....	60 96	.....	21 01	.....	.....	81 99
1,196 59	.....	321 00	1,620 65	.....	.....	108 06
.....	253 22	1,070 00	892 67	.....	.....	75 89
.....	381 57	8,393 00	8,218 62	.....	.....	207 19
272 57	.....	11,960 35	11,376 81	.....	856 11	.....
.....	379 29	3,388 00	3,126 27	.....	.....	117 06
.....	1,134 57	560 00	11 91	.....	.....	646 43
.....	199 42	199 42	.....	.....	.....	.....
.....	388 07	150 00	20 11	.....	.....	258 18
.....	53,634 99	.....	42,373 24	.....	.....	98,008 23
.....	2,491 81	4,682 30	3,213 25	.....	.....	1,022 26
110,346 36	394,439 41	2,480,984 80	2,585,353 29	26,423 08	99,080 78	427,492 32

TABLE NO. 3—*Continued.*

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimate Outstanding Jan. 1, 1881.
<i>Brought forward.</i>	6,616,650 00	2,283 34
Vega avenue, grading and cindoring		
Weddell street		
West River street		
Wood street, damages		
Wade Park avenue, grading, etc		
Wade Park avenue, opening... ..	7,000 00	
Warner road, grading, masonry and B... ..	4,300 00	
Warner road, damages		
Woodland avenue, damages		
Windsor avenue, sewer		
Water Works Fund	1,200,000 00	
Willson avenue, damages, Julia to Sawtell		
Willson avenue, opening, north of St. Clair	16,000 00	
Willson avenue, damages, Sawtell to Broadway	10,500 00	
Willson avenue, grading, Julia to Maurice	11,500 00	
Willson avenue, grading, Julia to Woodland		
Willson avenue, grading, Euclid to Woodland		
Willson avenue, grading, Euclid to Lake Erie	14,000 00	
Willson avenue, grading, Maurice to Sawtell	2,500 00	
Woodland Hills avenue, grading.	5,800 00	
Woodland Hills avenue, damages	3,900 00	
Woodland avenue, paving Ohio to Willson		
Woodland avenue, macadamizing, Willson to E. Madison	12,000 00	
Woodland avenue, East Madison to Woodland Hills	11,100 00	
<i>Total Bonded debt, Jan. 1, 1881.</i>	7,915,250 00	
Pelton Park Fund—no bonds issued	33,333 34	
<i>Total amount of overdrawn accounts.</i>		
<i>Carried forward.</i>	7,948,583 34	2,283 34

TABLE No. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880.	Disburse- ments for the Year 1880.	Receipts for the Year 1880.	Amounts due from Street R. R. Companies.	Amounts Overdrawn Jan. 1, 1881.	Cash on hand Jan. 1, 1881.
110,346 36	334,430 41	2,480,084 80	2,585,353 29	26,423 08	99,030 78	427,492 33
.....	94 38	94 38	144 40	.....	.....	144 40
.....	731 96	.....	.....	.....	.....	731 96
2,851 90	.....	.....	1,065 30	.....	1,736 60	.....
.....	16 38	16 38	.....	.....	.....	.....
3,245 77	.....	7,306 57	3,572 42	.....	6,981 92	.....
7,674 73	.....	12,622 80	14,262 76	.....	6,034 77	.....
2,519 38	.....	1,445 00	3,881 88	.....	82 50	.....
.....	166 86	166 86	.....	.....	.....	.....
6,171 90	.....	206 81	6,378 74	.....	.....	.....
10 46	.....	.....	10 46	.....	.....	.....
.....	47,522 32	203,843 73	204,563 43	.....	.....	48,242 02
.....	2,011 66	.....	.....	.....	.....	2,011 66
.....	839 76	9,386 61	8,071 43	.....	475 42	.....
1,262 99	.....	9,096 80	11,818 48	.....	.....	868 69
.....	2,934 03	6,368 17	5,990 00	.....	.....	2,555 86
860 37	.....	.....	860 37	.....	.....	.....
.....	576 96	200 00	287 13	.....	.....	664 09
.....	6,755 95	16,478 52	8,869 69	.....	852 88	.....
1,750 66	.....	5,180 28	6,458 53	.....	472 39	.....
867 59	.....	6,437 00	7,345 15	.....	.....	40 56
263 62	.....	4,811 00	4,827 06	.....	247 56	.....
3,022 35	.....	40,006 39	43,028 74	.....	.....	.....
3,064 49	.....	13,394 12	16,351 31	.....	107 30	.....
.....	4,120 57	13,287 47	14,742 42	.....	.....	5,575 52
.....	.....	16,666 66	17,759 09	.....	.....	1,092 43
.....	.....	.....	.....	.....	116,072 12	.....
143,912 57	400,210 24	2,848,562 38	2,905,642 10	26,423 08	116 072 12	489,419 51

TABLE No. 3—Continued.

	Amount of Bonds Outstanding Jan. 1, 1881.	Amount of Certified Estimates Outstanding Jan. 1, 1881.
<i>Brought forward.</i>	7,948,588 34	2,283 34
<i>Total amount of overdrawn accounts brought forward</i>		
Sinking Fund Commissioners.		
Amounts placed in their hands for investment—(See statement following:		
General Sinking Fund		
Viaduct Sinking Fund.		
S. T. Everett, City Treasurer—		
Cash on hand to the credit of the Water Works Fund.		
Cash on hand to the credit of all the funds		
Bonds held as guarantee against decay of pavements		
<i>Total.</i>	7,948,583 34	2,283 34
<i>Bills Receivable, Dr. General Fund, Cr</i>		
Notes given in settlement of rents due the city	\$ 155 00	
Notes given by the Perun Bohemian School and Literary Society.	5,340 00	
<i>Total</i>	\$ 5,495 00	

TABLE No. 3—Continued.

Balance Debit Jan. 1, 1880.	Balance Credit Jan. 1, 1880.	Disburse- ments for the Year 1880.	Receipts for the Year 1880.	Amount due from Street R. R. Companies	Total Debit Balances.	Cash on hand Jan. 1, 1881.
143,912 57	400,210 24	2,848,592 38	2,965,642 10	26,423 06		489,419 51
					116,072 12	
					5,507 36	
					94,798 98	
					48,242 02	
					217,448 35	
					7,850 68	
143,912 57	400,210 24	2,848,592 38	2,965,642 10	26,423 06	489,419 51	489,419 51

Sinking Fund Commissioners, Dr. Viaduct Sinking Fund, Cr.
Valley Railroad Bonds placed in the hands of the Sinking Fund
Commissioners to the credit of the Viaduct Sinking Fund. ... \$265,000 00

RECAPITULATION No. I.

SHOWING AMOUNT OF CASH ON HAND JAN. 1, 1880; RECEIPTS AND
DISBURSEMENTS FOR 1880, AND CASH ON HAND JAN. 1, 1881.

Total credit balances January 1, 1880	\$ 400,210 24
Total debit balances January 1, 1880	143,912 57
Total cash on hand January 1, 1880	\$ 256,297 67
Total receipts for the year 1880	2,965,642 10
Total resource for the year 1880	\$ 3,221,939 77
Total disbursements for the year 1880	2,848,592 38
Total cash on hand January 1, 1881	\$ 373,347 39

RECAPITULATION No. 1—*Continued.*

Cash in hands of Sinking Fund Commissioners—		
General Sinking Fund	\$ 5,507 30	
Viaduct " "	94,798 98	
		\$ 100,306 34
Cash in hands of City Treasurer—		
Water Works Fund	\$ 48,242 02	
All other funds... ..	217,448 35	
Bonds held in trust.....	7,350 68	
		273,041 05
Total cash on hand January 1, 1881.....		\$ 373,347 39

RECAPITULATION No. 2.
SHOWING TRANSFER OF FUNDS DURING THE YEAR 1880, AND ACTUAL
CASH RECEIPTS AND DISBURSEMENTS FOR THE YEAR 1880.

Receipts for the year 1880, as shown by			
Table No. 3.....		\$ 2,965,642 10	
Disbursements for the year 1880, as shown			
by Table No. 3.....			\$ 2,848,592 38
Amount received from Sinking Fund			
Commissioners.....		95,000 00	
Amount paid to Sinking Fund Comm'rs.....			121,113 7
Less amount received by Sinking Fund		\$ 3,060,642 10	\$ 2,999,706 38
Commissioners—earnings for the year.....		22,923 87	
Less amount charged to Sinking Fund			
Commissioners—earnings for the year			
—see Sinking Fund Commis'rs' Report.....			22,923 87
		\$ 3,037,718 23	\$ 2,946,782 48
<i>Included in the above figures of receipts and disbursements are the following transfers:</i>			
From Market to Armory.....	\$ 6,000 00		
From Woodland avenue to street inter-			
sections, and interest.....	43,004 39		
From Street Intersections to sundry			
street improvement funds.....	33,079 76		
From sundry street improvement funds			
to general funds.....	8,972 85		
From Central Way branch sewer to			
Sewer District No. 3.....	1,141 85		
From Police Departm't to Sanitary Fund	7,300 00		
From Sewer Districts 1 and 2, East Cleve-			
land, to Dunham avenue Sewer	1 213 24		
From General fund to street improve-			
ment funds.....	2,665 52		
From Market to Lighting Fund.....	7,500 00		
From Water W'ks Fund to Interest Fund	40,000,00		
From Kinsman street paving to Kinsman			
street repairing.....	1,381 90		
Miscellaneous transfers.....	7,306 70	159,635 71	159,635 71
Actual cash receipts for 1880, as per Ta-			
ble No. 1.....		\$ 2,878,092 52	
Actual disbursements for 1880, as per Ta-			
ble No. 1.....			\$ 2,787,156 77

RECAPITULATION No. 3.
SHOWING AMOUNT OF GENERAL AND SPECIAL INDEBTEDNESS OF
THE CITY OF CLEVELAND JAN. 1, 1881.

Amount of general bonded debt.....		\$ 6,328,250 00
Amount of special bonded debt.		
Street improvement	\$ 462,500 00	
Sewers	416,500 00	
Street damages	710,000 00	1,589,000 00
Total bonded indebtedness.....		\$ 7,915,250 00
Balance due for Pelton Park—no bonds issued		33,333 34
Amount of certified estimates—unpaid.....		2,283 34
Amount of overdrawn accounts		116,072 12
Total general and special indebtedness Jan. 1, 1881....		\$ 8,066,938 80

TABLE No. 4.

STATEMENT SHOWING AMOUNT AND MATURITY OF ALL BONDS
ISSUED BY THE CITY OF CLEVELAND DURING THE YEAR 1880.
ISSUED TO EXTEND TIME OF PAYMENT OF MATURED BONDS AND
INTEREST. ALSO STATEMENT OF AMOUNT REALIZED BY THE
SALE OF SAID BONDS.

WHAT PURPOSE.	Rate per Cent.	Date of Issue 1880.	1882.	1883.	1884.
GENERAL BONDS.					
Viaduct	6	Mar. 9			
Funded debt	5	Aug. 30			
do. do.	5	Nov. 30			
Park	5	Sep. 1	\$3,250		
Total			\$3,250		
Total of General Bonds issued in 1880					
Total proceeds of sale					
WHAT PURPOSE.	Rate per Cent.	Date of Issue 1880.	1882.	1883.	1884.
STREET IMPROVEMENT.					
Chestnut Ridge street	5	Nov. 30		\$7,000	
Euclid avenue, paving, west of Erie	5	"			
Grand avenue, grading	5	"	\$4,000		
Herald street, grading	5	"	3,000	4,000	\$4,000
St. Clair street, paving	5	"		6,000	
Warner road, grading	5	"	2,000		
Willson avenue, Euclid to L. Erie	5	"	4,000		
Woodland avenue, Willson to E. M.	5	"	2,000		
Total			\$18,000	\$17,000	\$4,000
Total amount of St. Improvement Bonds issued in 1880					
Total proceeds of sale					
Carried forward.					

TABLE No. 4—Continued.

1885.	1886.	1889.	1896.	1898.	Total of each Issue.	Total of each Class	Proceeds of Sale.	Total Pro- ceeds of Sales.
				\$ 3,000	\$ 3,000		\$ 3,146 25	
			\$276,000		276,000		293,084 40	
	\$ 32,000				32,000		33,920 00	
					3,250		3,250 00	
	\$ 32,000		\$276,000	\$ 3,000	\$ 314,250			
						\$ 314,250		\$ 333,400 65
1885.	1886.	1889.	1896.	1898.	Total of each Issue.			
					\$ 7,000		\$ 7,097 30	
\$10,000					10,000		10,600 00	
					6,000		6,057 00	
4,000	\$ 4,000				19,000		19,636 50	
					6,000		6,068 40	
					2,000		2,019 00	
					4,000		4,068 00	
					3,000		3,026 50	
\$14,000	\$ 4,000				\$ 57,000			
						\$ 57,000		\$ 58,559 70
						\$371,250		\$ 391,980 35

TABLE No. 4—*Continued.*

WHAT PURPOSE.	Rate per Cent.	Date of Issue. 1880.	1882.	1883.	1884.
<i>Brought forward.</i>					
STREET DAMAGES.					
Marquette street opening	5	Nov. 30		\$ 2,000	
Russell avenue opening	5	"	\$ 3,000		
Superior street widening	5	"	4,000		
St. Clair street widening	5	"	8,000		
Summit street opening	5	"			
Willson avenue opening (N. of St Clair)	5	"			\$ 4,000
Total			\$15,000	\$ 2,000	\$ 4,000
<i>Total amount of Street Damage Bonds issued 1880.</i>					
<i>Total proceeds of sale</i>					
WHAT PURPOSE.	Rate per Cent.	Date of Issue. 1880.	1882.	1883.	1884.
SEWERS.					
St. Clair street sewer					\$ 7,000
Superior street sewer, E. D. B				\$ 1,000	
Total				\$ 1,000	\$ 7,000
<i>Total am't of Sewer Bonds issued in 1880.</i>					
<i>Total proceeds of sale.</i>					

TABLE No. 4—Continued.

1885.	1886.	1889.	1896.	1898.	Total of each Issue.	Total of each Class.	Proceeds of Sale.	Total Pro- ceeds of Sale.
						\$ 371,250		\$ 391,960 35
					\$ 2,000		\$ 2,027 80	
					3,000		3,028 50	
					4,000		4,038 00	
					8,000		8,076 00	
		3,000			3,000		3,110 10	
					4,000		4,072 40	
		3,000			\$ 24,000			
						\$ 24,000		\$ 24,352 80
1885.	1886.	1889.	1896.	1898.				
					\$ 7,000		7,126 70	
					1,000		1,013 90	
					\$ 8,000			
						\$ 8,000		8,140 60
Total am't of bonds issued for all purposes during the year 1880.....						403,250		
Total proceeds of sale of bonds issued for all purposes during the year 1880.....							\$ 424,453 75	
Amount of accrued interest on bonds issued for all purposes during the year 1880.....								954 50
Total proceeds of sale and accrued interest of bonds issued for all purposes during the year 1880.....							\$ 425,408 25	
Amount of bonds issued for all purposes during the year 1879.....							\$ 426,200	
Amount of bonds issued for all purposes during the year 1880.....							403,250	
Amount of bonds issued in 1879 more than in 1880.....							\$ 22,950	

TABLE No. 5.

STATEMENT SHOWING AMOUNT OF GENERAL BONDS OF THE CITY OF CLEVELAND, OHIO, OUTSTANDING DECEMBER 31, 1880, AND MATURING AS FOLLOWS:

CLASS OF BONDS.	Rate per Cent.	Date of original Issue.	Amount of Original Issue.	Month when Principal and Interest are due.
PRINCIPAL.				
Water Works	7	Jan. 1, 1856	\$100,000	Jan. and July
" "	7	Nov. 1, 1869	300,000	Jan. and July
" "	7	May 1, 1872	400,000	May and Nov.
" "	7	May 7, 1873	200,000	May and Nov.
" "	6	1875 and 1876	200,000	Sept. and March ..
Funded Debt (Registered) ..	7	Sept. 1, 1869	200,000	Sept. and March ..
" "	7	Feb. 1, 1872	200,000	Aug. and Feb.
" "	7	Sept. 1, 1872	250,000	Sept. and March ..
" "	7	Aug. 1, 1873	200,000	Aug. and Feb.
" "	7	April 1, 1874	200,000	April and Oct.
" "	7	May 1, 1874	200,000	May and Nov.
" "	7	Dec. 1, 1874	67,000	Dec. and June
" "	6	Dec. 1, 1878	178,000	Dec. and June
" "	6	Sept. 1, 1869	25,000	Sept. and March ..
" "	5	Aug. & Nov. 1880 ..	308,000	Sept. and March ..
Infirmary	6	Nov. 1, 1876	60,000	Nov. and May
Cuyahoga River Dredging, above U. C. W. Bridge.....	6	1876-77-78	106,000	September
Monumental Park	7	Oct. 1, 1872	30,000	Oct. and April
Lake View Park	7	Dec. 1, 1872	225,000	Dec. and June
" "	7	Nov. 1, 1874	50,000	Nov. and May
" "	5	Oct. 1, 1880	3,750	Dec. and June
Canal	7	Jan. 1, 1874	150,000	Jan. and July
" "	7	1875-76	114,000	Sept. and March ..
" "	6	1878-79	11,000	Nov. and May
Viaduct	7	April 17, 1873	81,000	Feb. and Aug.
" "	7	Dec. 1, 1873	67,000	Dec. and June
" "	7	May 1, 1874	65,000	May and Nov.
" "	7	Nov. 3, 1874	5,000	Oct. and April
" "	7	1874-75	200,000	Oct. and April
" "	6	1875-76	300,000	Oct. and April
" "	6	Aug. 1876, Feb. '77 ..	500,000	Aug. and Feb.
" "	5	June 1, 1877	125,000	June and Dec.
" "	6	June 1, 1877	125,000	June and Dec.
" "	6	Nov. 1, 1877	100,000	Nov. and May
" "	6	March 11, 1878	100,000	March and Sept. ...
" "	6	June 1, 1878	200,000	June and Dec.
" "	6	June 1, 1878	100,000	June and Dec.
" "	6	Nov. 1, 1878	170,000	Nov. and May
House of Correction	7	Oct. 1, 1868	200,000	Oct. and April
School, "C"	6	Aug. 1, 1868	200,000	Aug. and Feb.
" " "D"	7	Dec. 1, 1869	65,000	Dec. and June
" " "E"	7	May 1, 1870	50,000	May and Nov.
" " "F"	7	Oct. 3, 1871	35,000	Oct. and April
Total				

TABLE NO. 5.—Continued.

[illegible]

TABLE No. 5—*Concluded.*

CLASS OF BONDS.	Rate per Cent.	Date of original Issue	Amount of Original Issue	Month when Principal and Interest are due.
PRINCIPAL.				
Water Works.....	7	Jan. 1, 1856.....	100,000	Jan. and July ...
" "	7	Nov. 1, 1869	300,000	Jan. and July ...
" "	7	May 1, 1872	400,000	May and Nov. ...
" "	7	May 7, 1873	200,000	May and Nov. ...
" "	6	1875-76	200,000	Sept. and March...
Funded Debt (Registered)	7	Sept. 1, 1869	200,000	Sept. and March...
" "	7	Feb. 1, 1872	200,000	Aug. and Feb. ...
" "	7	Sept. 1, 1872	230,000	Sept. and March...
" "	7	Aug. 1, 1873	200,000	Aug. and Feb. ...
" "	7	April 1, 1874	200,000	April and Oct.
" "	7	May 1, 1874	200,000	May and Nov.
" "	7	Dec. 1, 1874	67,000	Dec. and June
" "	6	Dec. 1, 1878	178,000	Dec. and June
" "	6	Sept. 1, 1880	25,000	Sept. and March...
" "	5	Aug. & Nov. 1880	308,000	Sept. and March...
Infirmary	6	Nov. 1, 1876	60,000	Nov. and May...
Cuyahoga River Dredging above U. C. W. Bridge	6	1876-7-8	106,000	September.....
Monumental Park	7	Oct. 1, 1872	30,000	Oct. and April....
Lake View Park	7	Dec. 1, 1872	235,000	Dec. and June
" "	7	Nov. 1, 1874	50,000	Nov. and May
" "	5	Oct. 1, 1880	3,250	Dec. and June
Canal.....	7	Jan. 1, 1874	150,000	Jan. and July....
"	7	1875-76	114,000	Sept. and March...
"	6	1878-79	11,000	Nov. and May
Viaduct	7	April 17, 1873	81,000	Feb. and Aug. ...
"	7	Dec. 1, 1873	67,000	Dec. and June
"	7	May 1, 1874	65,000	May and Nov.
"	7	Nov. 3, 1874	5,000	Oct. and April....
"	7	1874-75	200,000	Oct. and April....
"	6	1875-76	300,000	Oct. and April....
"	6	Aug. 1876, Feb. 77	500,000	Aug. and Feb.
"	5	June 1, 1877	125,000	June and Dec.
"	6	June 1, 1877	125,000	June and Dec.
"	6	Nov. 1, 1877	100,000	Nov. and May
"	6	Mar. 11, 1878	100,000	March and Sept. ...
"	6	June 1, 1878	200,000	June and Dec.
"	6	June 1, 1878	100,000	June and Dec.
"	6	Nov. 1, 1878	170,000	Nov. and May
House of Correction.....	7	Oct. 1, 1868	200,000	Oct. and April....
School, "C".....	6	Aug. 1, 1868	200,000	Aug. and Feb.
" " "D".....	7	Dec. 1, 1869	65,000	Dec. and June
" " "E".....	7	May 1, 1870	50,000	May and Nov. ...
" " "F".....	7	Oct. 3, 1871.....	35,000	Oct. and April ...
Total.....				

TABLE NO. 5—*Concluded.*

GENERAL BONDS MATURING FROM 1891 TO 1907 INCLUSIVE.										Total gen. bonds of all classes ma- turing from 1891 to 1907 inclusive. Deduct therefrom	Total (General) Bonds outstand- ing Jan. 1, 1891.
1891	1892	1893	1894	1895	1896	1897	1898	1907			
\$ 100,000										\$100,000	\$1,200,000
300,000										300,000	
	\$400,000									400,000	
		\$200,000								200,000	
				\$200,000						200,000	
150,000	\$200,000									150,000	
		230,000								230,000	
			200,000							200,000	
				\$200,000						200,000	
200,000										200,000	
67,000										67,000	
178,000										178,000	
25,000										25,000	
32,000						\$276,000				308,000	
42,000										42,000	1,758,000
61,000										61,000	
		30,000								30,000	61,000
235,000										235,000	
50,000										50,000	
3,250										3,250	
				150,000						150,000	
					88,000	26,000				114,000	318,250
										11,000	
			81,000							81,000	
			67,000							67,000	
				65,000						65,000	
				5,000						5,000	275,000
				200,000						200,000	
					300,000					300,000	
						500,000				500,000	
								\$125,000		125,000	
								100,000		100,000	
									100,000	100,000	
								100,000		200,000	
								100,000		100,000	
								170,000		170,000	
184,000										184,000	2,138,000
200,000										200,000	
65,000										65,000	
50,000										50,000	
35,000										35,000	350,000
\$1,977,000	\$200,000	\$660,000	\$548,000	\$620,000	\$598,000	\$802,000	\$225,000	\$581,000	\$125,000		\$6,328,250
Amount of General Bonds outstanding January 1, 1881.....											\$6,328,250
..... 1880											6,201,000
Net amount of increase during the Year 1880.....											\$125,250

TABLE No. 6.

AMOUNT AND MATURITY OF STREET IMPROVEMENT BONDS OUT
STANDING JANUARY 1, 1881.

NAMES OF STREETS.	Rate per cent.
Atlantic street, paving, culverts, etc	7
Broadway, paving, etc., Union to Miles	7
Broadway, paving, etc., Union to Miles	6
Brownell street, paving, Euclid to Burnham	7
Commercial street, paving	7
Case avenue, grading, Euclid to Payne	7
Case avenue, grading, Euclid to Payne	6
Chestnut Ridge street, macadamizing, etc.	7
Chestnut Ridge street, macadamizing, etc.	6
Chestnut Ridge street, macadamizing, etc.	5
Central Way, masonry	6
Detroit street, paving.	7
Cedar avenue, macadamizing, Willson to Fairmount	6
Euclid avenue, paving, West of Erie	7
Euclid avenue, paving, west of Erie	6
Euclid avenue, paving, west of Erie	5
Eagle street, paving	7
Euclid avenue, macadamizing, Fairmount to city limits	7
Euclid avenue, macadamizing, Fairmount to city limits	6
Euclid avenue, paving, Willson to Fairmount.	6
Fairmount street, grading and paving	6
Grand avenue, grading, etc.	7
Grand avenue, grading, etc.	6
Grand avenue, grading, etc.	5
Herald street, grading, culverts, etc.	5
Hamilton street, grading, etc.	6
Jennings avenue, paving, etc.	6
Carried forward.	

TABLE NO. 6—*Continued.*

September 1881.	September 1882.	September 1883.	September 1884.	September 1885.	September 1886.	Total.
\$ 1,000						\$ 1,000
27,500	\$ 19,000					46,500
2,000	39,800					41,800
5,000						5,000
2,000						2,000
2,600						2,600
2,800						2,800
2,500						2,500
8,000	4,000					7,000
		\$ 7,000				7,000
3,000	3,000	2,000				8,000
6,800						6,800
3,000	3,000	3,000	\$ 3,000			12,000
			5,000			5,000
4,000	4,000	5,000				13,000
				\$ 10,000		10,000
3,000						3,000
3,000	3,000	5,100	3,000			14,100
1,000	1,000		2,000			4,000
9,000	9,000	9,000	10,000			37,000
1,000	1,000	1,300	1,300			4,600
2,700						2,700
100						100
	6,000					6,000
	3,000	4,000	4,000	4,000	\$ 4,000	19,000
700	800					1,500
2,300						2,300
\$88,000	\$96,600	\$36,400	\$28,300	\$14,000	\$4,000	\$267,300

TABLE No. 6—*Continued.*

NAMES OF STREETS.	Rate per cent.
<i>Brought forward.</i>	
Kinsman street, paving, Willson to city limits.....	6
Kinsman street, repaving	7
Lincoln avenue, culverts, grading, etc	7
Perry street, paving, Woodland to Broadway.....	7
Prospect street, repaving, Erie to Perry	7
St. Clair street, paving, etc., Erie to Water	7
St. Clair street, paving, etc., Erie to Water	6
St. Clair street, paving, etc., Erie to Water	5
Seneca street, paving, etc., St. Clair street to depot	7
St. Paul street, grading and damages.....	6
Willson avenue, grading, Lake Erie to Euclid.....	6
Willson avenue, grading, Lake Erie to Euclid	5
Willson avenue, culverts, etc., Julia to Maurice.....	6
Willson avenue, grading, etc., Maurice to Sawtell.....	6
Woodland avenue, macadamizing, Willson to East Madison	6
Woodland avenue, macadamizing, Willson to East Madison.....	5
Woodland avenue, paving, East Madison to Woodland Hills	7
Woodland Hills avenue, grading and culverts.....	7
Woodland Hills avenue, grading and culverts.....	6
Warner road, masonry, bridge, etc.....	7
Warner road, masonry, bridge, etc.....	5
<i>Total amount outstanding December 31, 1880.....</i>	

TABLE No. 6—Continued.

September 1881.	September 1882.	September 1883.	September 1884.	September 1885.	September 1886.	Total.
\$ 88,000	\$ 96,600	\$ 36,400	\$ 28,300	\$ 14,000	\$ 4,000	\$ 267,300
37,000	38,000	20,000				95,000
1,000						1,000
1,500						1,500
1,700	1,800					3,500
5,100	5,100					10,200
2,300	2,000					4,300
3,300	3,500					6,800
		6,000				6,000
4,000						4,000
800	900					1,700
10,000						10,000
	4,000					4,000
5,000	6,500					11,500
2,500						2,500
9,000						9,000
	3,000					3,000
11,100						11,100
2,400						2,400
3,400						3,400
1,200	1,100					2,300
	2,000					2,000
\$189,300	\$164,500	\$62,400	\$28,300	\$14,000	\$4,000	\$462,500
Amount of street improvement bonds outstanding Dec. 31, 1879.....						\$330,300
1880.....						462,500
Decrease during 1880.....						\$367,800

TABLE No. 7.
AMOUNT AND MATURITY OF STREET DAMAGE BONDS OUTSTANDING
DECEMBER 31, 1880.

NAMES OF STREETS.	Month when Due.	Rate Per Cent.	1881	1882
Allen street, opening	September	7	\$ 2,500	.....
Becker avenue, widening	"	6	1,500	.....
Bailey street, opening	"	7	2,800	.....
Bond street, opening	"	7	.....	\$32,000
Bond street, opening.....	"	6	34,000	.....
Broadway, grading damages, Union to Miles	"	7	2,000	2,000
Central Place, opening.....	"	7	9,000	8,000
Central Place, opening.....	"	6	.....	.....
Central Way, damages	"	7	4,000	.....
Columbus, Pearl and Walworth Run bridge, improvements	"	7	15,000	.....
Columbus, Pearl and Walworth Run bridge, improvements	"	6	.....	17,000
Custead avenue, opening	"	6	1,000	.....
East Prospect street, opening.....	"	7	4,500	.....
Euclid avenue, widening	November	7	2,000	.....
Grand avenue, opening	September	7	1,000	.....
Herman street, opening	"	6	900	1,000
Marquette street, opening	"	6	4,000	4,000
Marquette street, opening.....	"	5	.....	.....
Orange street, opening	"	6	6,700	.....
Payne avenue, opening	"	7	.....	90,000
Payne avenue, opening	March	7	40,000	.....
Payne avenue, opening.....	September	6	.....	.....
Russell avenue, opening.....	"	5	.....	3,000
Slater avenue, opening	"	7	2,200	2,300
Summit street, opening.....	"	7	4,000	4,000
Summit street, opening.....	"	5
Seneca street, opening.....	"	7	8,000	3,000
Carried forward.	\$145,100	\$166,300

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TABLE No. 7—Continued.

1883	1884	1885	1886	1887	1888	1889	Total.
							\$ 2,500
							1,500
							2,800
\$35,000							67,000
							34,000
							4,000
13,000	\$13,000	\$13,500					56,500
			\$17,000				17,000
							4,000
	17,000	16,400					48,400
							17,000
							1,000
							4,500
							2,000
							1,000
							1,900
							8,000
2,000							2,000
							6,700
	89,800						179,800
							40,000
92,000							92,000
							3,000
2,400							6,900
3,000	3,000	3,000	2,300	\$2,000	\$2,000		23,300
						\$3,000	3,000
3,000							14,000
\$150,400	\$122,600	\$32,900	\$19,300	\$2,000	\$2,000	\$3,000	\$643,600

TABLE NO. 7—*Continued.*

NAMES OF STREETS.	Month when Due.	Rate Per Cent.	1881	1882
<i>Brought forward.</i>			\$145,100	\$186,300
Seneca street, opening	September	6		\$5,000
St. Clair street, widening	"	5		8,000
Superior street, widening	"	5		4,000
Woodland Hills avenue, widening	"	6	\$3,000	
Woodland Hills avenue, widening	"	7	900	
Willson avenue, opening, N. of St. Clair..	"	6	4,000	4,000
Willson avenue, opening, N. of St. Clair..	"	5		
Willson ave., opening, Sawtell to Broadway	"	7	4,500	
Willson ave., opening, Sawtell to Broadway	"	6		6,000
Wade Park avenue, opening	"	7	7,000	
Total			\$164,500	\$193,300

TABLE No. 8.
AMOUNT AND MATURITY OF SEWER BONDS OUTSTANDING DEC. 31, 1880.

	Rate per Ct	When Issued.	Month When Due.	1881	1882	1883	1884
Sewer District No. 1..	7	1874-5	Sep & Mch	\$ 6,000	\$ 6,000	\$ 5,000	\$ 5,000
Sewer District No. 2..	7	1874-5	Sep & Mch	5,500	6,000	5,000	5,000
" " " "	7	1874	"	.....	.....	.....	.....
" " " "	7	1875	September	.....	.....	3,600	3,600
Sewer District No. 3..	6	April, 1882	Apr & Oct	700	700	.....	.....
" " " "	6	1873-4	Aug & Feb	4,000	5,000	.....	.....
" " " "	7	1873-4	Sep & Mch	.....	.....	.....	2,000
Sewer District No. 4..	6	June, 1882	Jun & Dec	800	800	.....	.....
Sewer District No. 5..	7	1875	Sep & Mch	7,500	6,000	1,300	.....
" " " "	7	1874	"	.....	.....	.....	.....
" " " "	7	Nov. 1, 1874	"	.....	.....	.....	3,000
" " " "	7	1875	"	.....	.....	.....	.....
Sewer District No. 7..	6	1872-3	Aug & Feb	1,000	.....	.....	.....
" " " "	7	1874-5	Sep & Mch	11,000	26,000	16,000	16,000
" " " "	7	1872	"	.....	.....	.....	.....
" " " "	7	1875-6	September	.....	.....	.....	.....
" " " "	7	1876	"	1,600	.....	.....	.....
Sewer District No. 12.	7	1874	Sep & Mch	6,500	6,000	7,000	8,000
Commercial St. Sewer	7	1875-6	September	2,000	2,000	.....	.....
Superior St. Sewer, E. of Doan Brook.....	7	1876-7	"	1,500	800	.....	.....
Superior St. Sewer, E. of Doan Brook.....	5	Nov. 30, 1880	"	.....	.....	1,000	.....
St. Clair St. Sewer, E. of Giddings Brook.	7	1876-8	"	3,000	3,000	4,600	.....
St. Clair St. Sewer, E. of Giddings Brook.	5	Nov. 30, 1880	"	.....	.....	.....	7,000
Sewer Districts 1 and 2, East Cleveland...	6	1877-9	"	7,900	6,000	7,000	6,500
Totals.....				\$59,000	\$68,300	\$50,500	\$58,100

TABLE No. 9.

RECAPITULATION OF THE BONDED INDEBTEDNESS OF THE CITY OF
CLEVELAND DECEMBER 31, 1880, AND MATURING AS FOLLOWS :

CLASS OF BONDS.	1881 to 1883. Inclusive.		
	1881.	1882.	1883.
Water Works.....	\$100,000		
Funded Debt.....			\$ 51,000
Infirmary.....	6,000	\$6,000	6,000
Dredging Cuyahoga River.....	19,000	22,000	20,000
Lake View and Monumental Park.....		3,250	
Canal.....			
Viaduct.....			
House of Correction.....			84,000
School.....	100,000	100,000	
<i>Total General Bonds.....</i>	<i>\$225,000</i>	<i>\$181,250</i>	<i>\$161,000</i>
Street Improvements.....	189,300	164,500	62,400
Street Damages.....	164,500	193,300	160,400
Sewers.....	59,000	68,300	50,500
Total General and Special Bonded Debt.....	\$637,800	\$557,350	\$434,300

TABLE NO. 9—Continued.

1884 to 1891—Inclusive. (Concluded on next two pages.)								Total from 1881 to 1891, Inclusive (Carried forward.)
1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	
\$300,000								\$ 400,000
	\$ 99,000	\$ 32,000		\$ 25,000	\$327,000	\$178,000	\$200,000	852,000
6,000	6,000	6,000	\$ 6,000					42,000
								61,000
			235,000		50,000			288,250
100,000								184,000
		65,000	50,000	35,000				350,000
\$406,000	\$105,000	\$103,000	\$291,000	\$ 60,000	\$317,000	\$178,000	\$200,000	\$2,177,250
28,300	14,900	4,000						442,500
132,600	32,900	19,300	2,000	2,000	3,000			710,000
56,100	44,900	21,800	22,800	30,800	29,600	22,000		405,800
\$623,000	\$196,800	\$148,100	\$315,800	\$ 92,800	\$349,600	\$200,000	\$200,000	\$3,755,550

TABLE No. 9—*Concluded.*

CLASS OF BONDS.	Total from 1882 to 1894, Inclusive.			
	1881 to 1891 Inclusive. Brought forward.	1892.	1893	1894.
Water Works.....	\$400,000	\$400,000	\$200,000	
Funded Debt.....	852,000	230,000	200,000	\$200,000
Infirmary.....	42,000			
Dredging Cuyahoga River.....	61,000			
Lake View and Monumental Park.....	288,250	30,000		
Canal.....				150,000
Viaduct.....			148,000	270,000
House of Correction.....	184,000			
School.....	350,000			
<i>Total General Bonds.....</i>	<i>\$2,177,250</i>	<i>\$600,000</i>	<i>\$548,000</i>	<i>\$620,000</i>
Street Improvements.....	462,500			
Street Damages.....	710,000			
Sewers.....	405,800	10,700		
<i>Total General and Special Bonded Debt.....</i>	<i>\$3,755,550</i>	<i>\$670,700</i>	<i>\$548,000</i>	<i>\$620,000</i>

TABLE No. 10.

STATEMENT OF CERTIFIED ESTIMATES UNPAID JANUARY 1, 1881.

Date of Issue.	No.	To whom Issued.	No. of Esti- mate.	For what Purpose.
May 21, 1876.....	367	Henry Zutafern.....	Final..	Sprinkling.
November 4, 1875.....	258	Henry Starke	" ..	"
November 4, 1875.....	258	" "	" ..	"
November 4, 1875.....	257	" "	" ..	"
November 12, 1875.....	275	Henry Zutafern	" ..	"
November 4, 1875.....	256	Henry Starke	" ..	"
November 4, 1875.....	204	" "	" ..	"
Total				

TABLE NO. 10—Continued.

Name of Street.	From.	To.	When Interest Commenced.	Amount.
Clinton	Hanover..	Kentucky ..	May 6, 1876	\$ 83 25
Linden	Woodland ..	Scoville.....	October 15, 1875....	175 72
Laurel	"	Garden	October 15, 1875....	337 06
Maple	"	Scovill	October 15, 1875....	179 40
Pearl	Detroit	Monroe	November 1, 1875 ..	405 64
Sterling	Woodland ..	Sibley	October 15, 1875 ..	177 89
Scovill	Willson	Brownell	October 15, 1875....	924 38
.....	.....	.....	.....	\$2,283 34
Amount of Certified Estimates unpaid January 1, 1880.....				\$16,615 04
1881.....				2,283 34
Amount paid during the year 1880				\$14,331 70

TABLE No. 11.

STATEMENT SHOWING THE AMOUNT OF CLEVELAND CITY BONDS
AND INTEREST MATURING DURING THE YEAR 1881.

FOR WHAT PURPOSE ISSUED.	Amount on which Interest is due.	JANUARY.		FEB.
		Bonds.	Inter- est.	Inter- est.
Water Works.....	\$1,200,000	\$100,000	\$14,000	....
Funded debt.....	1,758,000	.....	.....	\$ 14,000
Infirmary.....	42,000	.....	.....	.....
Cuyahoga river dredging.....	61,000	.....	.....	.....
Parks.....	318,250	.....	.....	.....
Canal.....	275,000	.....	5,250	.....
Viaduct.....	2,138,000	.....	.....	17,835
House of Correction	184,000	.....	.....	.....
Schools.....	350,000	.....	.....	6,000
Sewer District No. 1	28,300	.....	.....	.....
" " " 2.....	35,700	.....	.....	.....
" " " 3	12,400	.....	.....	270
" " " 4	1,000	.....	.....	.....
" " " 5	34,200	.....	.....	.....
" " " 7.....	223,000	.....	.....	30
" " " 12.....	28,100	.....	.....	.....
Commercial street sewer	4,000	.....	.....	.....
Superior street sewer, E. D. B	3,300	.....	.....	.....
St. Clair street, sewer	17,000	.....	.....	.....
Sewer Districts 1 and 2, East Cleveland	27,400	.....	.....	.....
Street improvement and damage accounts.....	1,172,500	.....	.....	.....
Total bonds unpaid January 1, 1881	\$7,915,250
Total bonds due in 1881	\$100,000
Total interest due in 1881	\$19,250	\$38,135

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TABLE No. 11—Continued.

(Concluded on next two pages.)

MARCH.		APRIL.		MAY.	JUNE.	JULY.	Total due from January 1, 1881, to July 31, 1881. Carried forward.	
Bonds.	Inter- est.	Bonds.	Inter- est.	Inter- est.	Bonds.	Interest.	Inter- est.	Bonds. Interest.
	\$6,000 00			\$21,000		10,500	\$100,000	\$ 51,500 00
	21,750 00		\$7,000	7,000		\$ 7,685 00		57,435 00
				1,200				1,200 00
			1,050	1,750		8,306 25		11,108 25
	3,990 00			330		5,250		14,820 00
	3,000 00		16,175	10,375		18,220 00		65,605 00
			6,440					6,440 00
			1,225	1,750		2,275 00		11,250 00
	990 50							990 50
	997 50							997 50
	70 00	\$700	42				700	382 00
					\$ 800	48 00	800	48 00
	1,197 00							1,197 00
	7,371 00							7,401 00
	983 50							983 50
\$40,000	2,800 00						40,000	2,800 00
\$40,000		\$700			\$800		\$141,500	
	\$40,149 50		\$31,032	\$43,405		\$36,534 25	\$15,750	\$234,215 75

TABLE NO. 11—*Concluded.*

FOR WHAT PURPOSE ISSUED.	Amount on which Interest is due.	Total due from Jan. 1, 1881, to July 31, 1881. <i>Brought forward.</i>		AUGUST.	
		Bonds.	Interest.	Bonds.	Inter- est.
Water Works	\$1,200,000	\$100,000	\$ 51,500 00		
Funded debt.....	1,758,000		57,435 00		\$ 14,000
Infirmary	42,000		1 290 00		
Cuyahoga river dredging	61,000				
Parks	318,250		11,108 25		
Canal.....	275,000		14,820 00		
Viaduct	2,138,000		65,605 00		17,835
House of Correction	184,000		6,440 00		
Schools.....	350 000		11,250 00	\$100,000	6,000
Sewer District No. 1.....	28,300		998 50		
" " " 2	35,700		197 50		
" " " 3	12,400	700	382 00	4,000	270
" " " 4	1,600	800	48		
" " " 5	34,200		1,197 00		
" " " 7	223,900		7,401 00	1,000	30
" " " 12	28,100		983 50		
Commercial street sewer	4,000				
Superior street, sewer, E. D. B....	3,300				
St. Clair street, sewer.....	17,600				
Sewer Dist's 1 and 2, E. Cleveland	27,400				
Street improv't & damage ac'ts.	1,172,500	40,000	2,800 00		
Total bonds unpaid Jan. 1, 1881	\$7,915,250				
Total bonds due in 1881		\$141,500		\$105,000	
Total interest due in 1881			\$234,215 75		38,135
Balance of above bonds unpaid Jan. 1, 1882					

TABLE No. 11—*Concluded.*

SEPTEMBER.		OCT.	NOVEMBER.		DECEMBER.	Total amount of bonds due in 1881.	Total amount of interest due in 1881.	Balance Bonds unpaid January 1, 1882.
Bonds.	Interest.	Inter- est.	Bonds	Inter- est.	Interest.			
	\$ 6,000 00			\$21,000		\$100,000	\$ 78,500 00	\$1,100,000
	21,750 00	\$ 7,000		7,800	\$ 7,685 00		114,870 00	1,758,000
			\$6,000	1,200		6,000	2,520 00	38,000
\$19,000	3,680 00					19,000	3,680 00	42,000
		1,050		1,750	8,306 25		22,212 50	318,250
	3,990 00			330			19,140 00	275,000
	3,000 00	16,175		10,375	18,220 00		131,210 00	2,138,000
		6,440					12,880 00	184,000
		1,225		1,750	2,275 00	100,000	22,500 00	250,000
6,000	990 50					6,000	1,981 00	22,800
5,500	1,501 50					5,500	2,499 00	30,200
	70 00	21				4,700	743 00	7,700
					24 00	800	72 00	800
7,500	1,197 00					7,500	2,384 00	26,700
12,600	8,232 00					13,800	15,663 00	210,300
6,500	983 50					6,500	1,967 00	21,000
2,000	290 00					2,000	280 00	2,000
1,500	211 00					1,500	211 00	1,800
3,000	1,092 00					3,000	1,092 00	14,800
7,900	1,644 00					7,900	1,644 00	19,500
311,800	72,604 00		2,000	140		353,800	75,544 00	818,700
\$353,800			\$8,000			\$357,800		
	\$127,205 50	\$31,911		\$43,005	\$36,510 25		\$ 511,582 50	
								\$ 7,277,450
Total amount of bonds and interest due in 1881.....							\$1,149,382 50	

TABLE No. 12.
A COMPARATIVE ANALYZED STATEMENT OF DISBURSEMENTS FROM
THE GENERAL FUNDS OF THE CITY OF CLEVELAND FOR THE
YEARS 1875, 1876, 1877, 1878, 1879, 1880.

1875.	Ordinary Expenses.	Amounts Paid for Work Done in Former Years.	New Build- ings, Land and other Permanent Improve- ments.	Costs of Court, Judgments, etc.	Total Disburse- ments.
Bridge Fund	\$ 24,815 60				\$ 24,815 60
Dredging Fund.	2,249 42	\$19,072 93			21,322 35
Fire Department.	151,862 08		\$19,066 20		170,948 28
General Fund.	144,288 62		50,897 19	\$3,200 40	198,386 21
Gas Fund	116,746 15		5,425 23		122,171 38
House of Correction	82,197 04		2,465 00		84,662 04
Infirmity Fund	81,256 21				81,256 21
Market Fund.	6,602 67				6,602 67
Police Court Fund.	8,533 85		4,083 92		12,617 77
Park Fund.	7,803 57		52,853 72		60,657 29
Police Fund.	168,302 68				168,302 68
Street Department.	92,420 42				92,420 42
Total Disburse- ments for 1875.	\$887,078 26	\$19,072 93	\$134,811 26	\$3,200 40	\$1,044,162 85

TABLE No. 12—Continued.

1876.	Ordinary Expenses.	Amounts Paid for Work Done in Former Years.	New Build- ings, Land and other Permanent Improve- ments.	Jurors' Fees Superior Court.	Total Disburse- ments.
Bridge Fund.....	\$ 24,185 44				\$ 24,185 44
Dredging Fund.....	49,884 72	\$46,643 39			96,478 11
Fire Department...	139,638 20		\$10,256 63		149,894 83
General Fund.	156,492 79		98,380 07	\$17,684 75	272,557 61
Gas Fund	119,425 06		6,050 35		125,475 40
House of Correction	78,343 62				78,343 62
Infirmary Fund....	84,539 34		40,712 40		131,251 74
Market Fund.....	9,742 46				9,742 46
Police Court Fund..	8,040 70		1,055 95		9,096 65
Park Fund	6,903 57		14,199 35		21,102 92
Police Department.	154,528 38				154,528 38
Street Department..	99,073 85				99,073 85
Total Disburse- ments for 1876.	\$930,748 12	\$46,643 39	\$176,654 75	\$17,684 75	\$1,171,731 01

TABLE No. 12—Continued.

1877.	Ordinary Ex- penses of 1877. Paid in 1877-8.	Total Ordinary Ex penses for 1877.
Bridge Fund	\$19,822 68	
Bills contracted in 1877, paid in 1878	382 69	\$20,205 37
Dredging Fund	\$52,841 78	
Bills contracted in 1877, paid in 1878	32,175 61	85,017 39
Fire Department	\$114,169 45	
Bills contracted in 1877, paid in 1878	11,784 80	125,954 25
General Fund	\$88,900 34	
Bills contracted in 1877, paid in 1878	6,723 15	95,623 49
Gas Fund	\$94,208 70	
Bills contracted in 1877, paid in 1878	22,378 49	116,587 19
House of Correction	\$80,013 97	
Bills contracted in 1877, paid in 1878	19,058 56	99,072 53
Infirmity Fund	\$80,209 09	
Bills contracted in 1877, paid in 1878	9,284 80	89,553 89
Market Fund	\$6 505 57	
Bills contracted in 1877, paid in 1878	1,475 41	7,980 98
Police Court Fund	\$8,836 38	
Bills contracted in 1877, paid in 1878	775 13	9,610 51
Park Fund	\$6,643 57	
Bills contracted in 1877, paid in 1878	184 72	6,828 29
Police Department	\$159,986 72	
Bills contracted in 1877, paid in 1878	2,400 00	162,386 72
Street Department	\$65,899 05	
Bills contracted in 1877, paid in 1878	3,768 54	69,667 59
Total		\$888,488 29

TABLE NO. 12—Continued.

Amounts paid for Work Done in For- mer Years.	New Buildings Land and Other Perma- nent Improve- ments.	Costs of Court Judgments and Miscellaneous Expenses.	Total Disbursements.
	\$13,882 86		\$33,685 04
	14,184 41		
\$33,794 31			86,636 09
	41,857 00		156,026 45
	23,514 66	\$12,746 05	126,261 06
	698 75		94,907 45
			80,018 97
5,350 00	14,000 00		99,619 09
			6,506 57
	2,429 30		11,274 08
	2,546 67		9,190 24
			150,966 72
			65,899 95
\$39,144 31	\$113,203 15	\$12,746 05	\$928,005 40

TABLE No. 12—*Continued.*

1878.	Ordinary Ex- penses.
Bridge Fund	\$ 23,790 61
Dredging Fund	8,249 86
Fire Department	146,714 94
General Fund	116,470 51
Gas Fund	105,690 04
House of Correction	106,865 21
Infirmary Fund	49,197 29
Market Fund	7,930 22
Police Court Fund	8,606 90
Park Fund	6,008 57
Police Department	155,148 71
Street Department	47,234 49
Total Disbursements	\$783,382 35

TABLE No. 12—Continued.

Amounts Paid for Work Done in For- mer Years.	New Buildings Land and Other Perma- nent Improve- ments.	Costs of Court Judgments and Miscella- neous Expen- ses.	Bills Contracted in 1877, Paid in 1878.	Total Disbursements.
			\$ 14,567 10	\$ 38,257 71
\$33,241 48		\$ 595 13	32,175 61	74,282 08
		1,470 70	11,784 80	159,970 44
		8,883 31	6,723 15	132,076 97
	\$ 3,235 06		22,378 49	131,304 19
	5,400 11		19,058 56	132,813 88
	1,491 45		9,284 89	59,973 63
		98,813 80	1,475 41	108,219 43
			775 13	9,382 03
	454 78		184 72	6,643 07
			2,400 00	157,548 71
		16,186 55	3,768 54	67,189 58
\$33,241 48	\$10,582 00	\$125,949 49	\$124,576 40	\$1,077,741 72

TABLE No. 12—*Continued.*

1879.	Ordinary Ex- penses.
Armory Fund.....	
Bridge Fund.....	\$ 30,004 03
Dredging Fund.....	13,161 20
Fire Department.....	146,721 15
General Fund.....	106,563 77
House of Correction.....	92,906 26
Infirmary Fund.....	40,447 46
Lighting Fund.....	83,271 40
Market Fund.....	10,396 52
Police Court.....	9,061 30
Police Department.....	143,027 35
Park Fund.....	5,923 86
Street Department.....	50,807 14
Total..	\$732,390 44

TABLE No. 12.—*Continued.*

Amounts paid for Work Done in for- mer Years.	New Buildings Land and Other Permanent Im- provements	Costs of Court Judgments and Miscellaneous Expenses.	Total Disbursements.
	\$14,174 66		\$14,174 66
			30,004 08
\$26,000 00			39,161 20
	4,886 08	\$ 185 78	151,732 99
		10,498 55	117,622 32
	4,425 47		97,330 78
			40,447 48
	2,989 60		86,211 00
	12,222 53	24,431 45	47,050 50
			9,061 30
			143,027 35
430 78	964 11		7,385 75
285 99		23,964 13	75,037 26
\$26,696 77	\$39,632 43	\$59,079 91	\$857,699 55

TABLE No. 12—*Concluded.*

1880.	Ordinary Ex- penses.
Armory Fund.....	
Bridge Fund.....	\$ 23,166 46
Dredging Fund.....	20,727 67
Fire Department.....	148,426 60
General Fund.....	107,280 54
House of Correction.....	113,124 31
Infirmary Fund.....	38,987 11
Lighting Fund	88,113 87
Market Fund.....	10,174 43
Police Court.....	19,346 69
Police Department	138,176 18
Park Fund.....	7,631 20
Street Department.....	60,415 48
Sanitary Fund.....	7,587 08
Total	\$784,017 62

TABLE NO. 12—*Concluded.*

Amounts paid for Work Done in Former Years.	New Buildings and Other Perma- nent Improve- ments.	Costs of Court and Miscellaneous Ex- penses	Total Disbursements.
	\$13,519 95		\$13,519 95
			33,166 46
\$23,800			44,527 67
			148,426 60
		\$10,121 65	117,402 19
			113,134 31
	5,768 02		44,655 13
	2,271 35		90,385 22
		16,275 15	26,449 58
		971 00	11,317 69
		7,300 00	145,476 18
		3,246 00	10,877 20
	2,061 26		62,496 74
			7,537 06
\$23,800	\$23,640 58	\$37,913 80	\$869,372 00

TABLE No. 13.

COMPARATIVE SHOWING OF THE FOLLOWING ITEMS FOR 10 YEARS.

YEAR.	Rate of Levy. In Mills.	Valuation.	Amount Levied for the General Fund.
1871.....	12½	\$57,841,746	\$ 723,021 83
*1872.....	15½	59,728,871	925,797 40
1873.....	15½	60,144,682	1,082,114 27
1874.....	18½	73,210,144	1,336,085 13
1875.....	18½	73,305,277	1,374,473 94
1876.....	18½	73,562,237	1,379,291 98
1877.....	17½	71,296,122	1,272,635 74
1878.....	15½	70,139,639	1,076,643 46
1879.....	15½	70,548,104	1,061,748 96
1880.....	15½	73,647,194	1,159,943 31

*Until April 1, 1872, the fiscal year ended on April 1, but during the year 1872 the law was changed, making the fiscal year end December 31. hence the year 1872 contains but nine months.

TABLE NO. 13—Continued.

Disbursements for Ordinary Expenses of City Govern- ment.	Total Disburse- ments for the General Funds, Including In- terest.	Interest on General Bonded Debt.	Total Par Value of all Sinking Funds.	Cash on hand December 31.
\$537,906 83	\$ 774,887 90	\$166,035 17	\$1,501,107 36	\$260,831 09
646,862 53	829,328 17	134,615 64	1,725,602 08	34,383 93
802,555 84	1,542,676 91	257,716 24	1,796,391 52	182,090 59
856,443 97	1,189,417 65	300,386 86	1,833,641 17	92,447 35
867,076 26	1,505,977 63	331,027 10	1,925,204 62	706 30
930,748 12	1,633,634 36	359,408 45	2,021,902 33	15,024 55
888,466 29	1,464,329 13	362,323 73	2,113,386 65	395,706 43
783,362 35	1,679,006 61	417,237 24	1,831,083 77	347,372 33
732,290 44	1,343,770 81	419,055 25	2,268,272 62	182,106 30
784,017 62	1,369,671 17	402,082 50	1,862,871 12	273,041 05

City in debt to
City Treas.

TABLE NO. 13—*Concluded.*

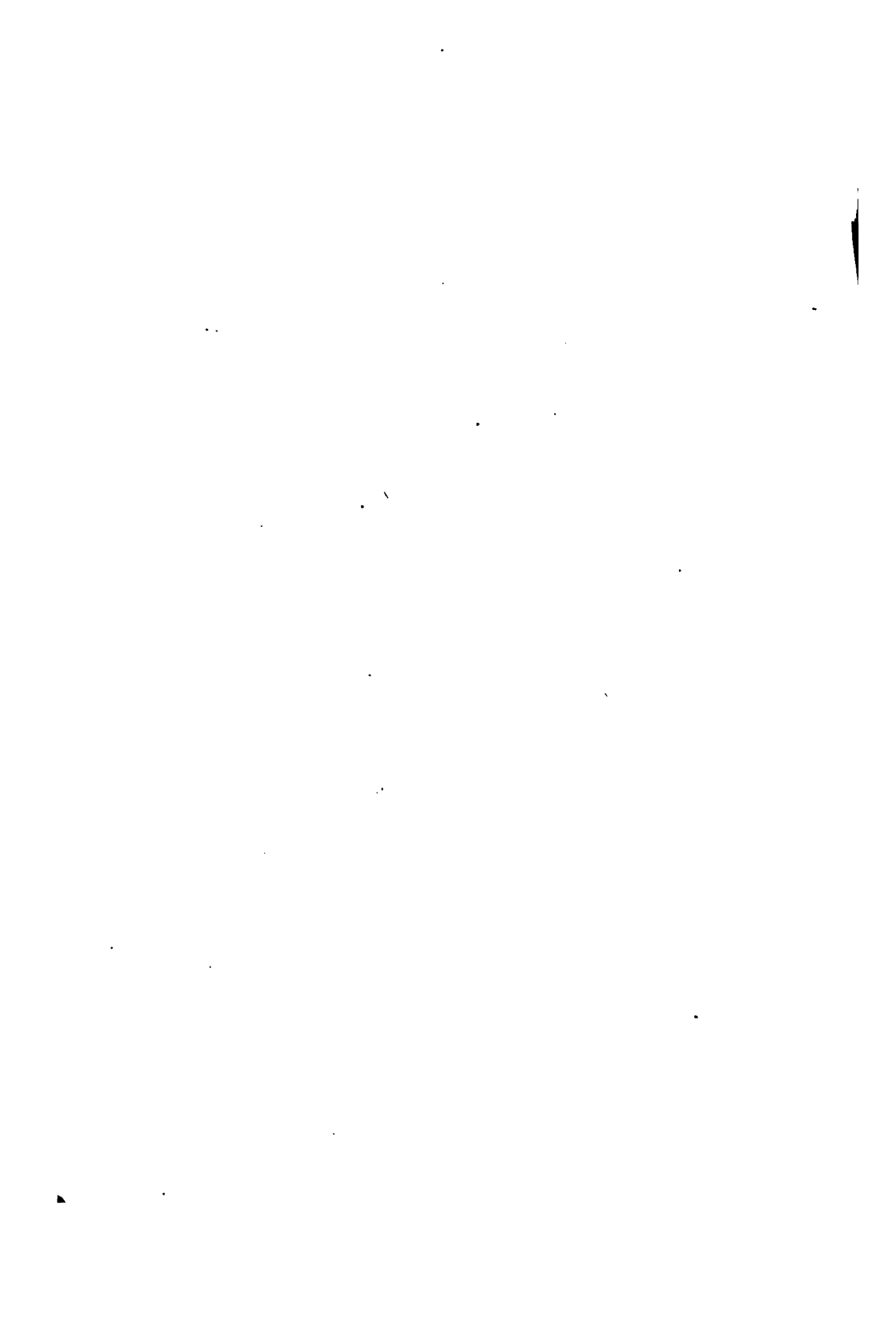
YEAR.	Total Amount of Bonds Out- standing Dec. 31.	Total Amount of Certified Es- timate Out- standing Dec. 31.	Amount of Overdrawn Balances Dec. 31.	Total Indebted- ness Dec. 31.
1871	\$3,684,300 00	\$176,439 80	\$269,766 31	\$4,130,506 11
*1872	4,735,300 00	138,646 69	676,701 79	5,550,648 48
1873	5,093,600 00	177,794 86	744,698 50	6,016,093 36
1874	7,270,500 00	251,130 38	420,201 62	7,941,832 00
1875	8,097,900 00	236,423 06	623,379 32	8,957,702 38
1876	8,604,900 00	162,698 57	675,063 99	9,442,572 56
1877	9,054,164 58	80,326 99	224,339 69	9,358,831 26
1878	9,284,100 00	17,798 99	237,937 85	9,539,836 84
1879	8,591,100 00	16,615 04	143,880 06	8,751,595 10
1880 } Bonds ... \$7,915,250 00				
} Pelton Park \$33,333 34	7,948,583 34	2,283 34	116,072 12	8,066,968 80

*Until April 1, 1872, the fiscal year ended April 1, but during the year 1872 the law was changed, making the fiscal year end December 31. hence the year 1872 contains but nine months.

TABLE No. 14.

LEVY IN THE TAX OF 1880 TO MEET THE EXPENSES OF 1881.

FUND.	Rate. Mills.	Valuation.	Amount Levied.
Bridge	$\frac{7}{8}$	\$73,647,194 00	\$18,411 80
Dredging	$\frac{1}{8}$	"	38,141 24
Fire	2	"	147,204 38
General.	$1\frac{1}{8}$	"	99,423 72
House of Correction ..	No Levy	"	.....
Infirmary	$\frac{1}{8}$	"	14,729 44
Interest	$5\frac{1}{8}$	"	390,380 16
Lighting	$1\frac{1}{8}$	"	95,741 35
Park	$\frac{1}{8}$	"	7,364 72
Pelton Park	$\frac{1}{8}$	"	18,411 80
Police	$1\frac{1}{8}$	"	125,200 21
Sanitary	$\frac{1}{8}$	"	18,411 80
Sinking, General	$1\frac{1}{8}$	"	114,158 14
Sinking, Viaduct	$\frac{1}{8}$	"	3,682 38
Street	$\frac{1}{8}$	"	62,600 11
Street Intersections	$\frac{1}{8}$	"	11,047 08
Totals	$15\frac{1}{8}$		\$1,159,943 31



ANNUAL REPORT
OF THE
CITY
TREASURER,
OF THE
CITY OF CLEVELAND,
FOR THE FISCAL YEAR ENDING DEC. 31, 1880.

CITY TREASURER'S REPORT.

To the Honorable Mayor and City Council of the City of Cleveland, Ohio :

GENTLEMEN:—Herewith I beg to submit to you a detailed statement of the receipts and disbursements of the several funds of the city for the year ending December 31st, 1880.

ATLANTIC STREET—			
Overdrawn January 1, 1880		\$450 96	
Disbursements	\$1,889 00		
Receipts	726 09	1,162 91	
Overdrawn			\$1,613 87
ALLEN STREET OPENING—			
Overdrawn January 1, 1880		1,712 05	
Disbursements	9,086 16		
Receipts	7,012 73	2,023 43	
Overdrawn			3,735 43
ARLINGTON STREET—			
Overdrawn January 1, 1880		409 46	
Overdrawn			409 46
BROADWAY FUND—			
Balance to credit January 1, 1880		5,214 21	
Disbursements	130,544 61		
Receipts	87,998 01	42,546 60	
Overdrawn			37,332 39
BECKWITH STREET—			
Overdrawn January 1, 1880		782 79	
Disbursements ..	749 00		
Receipts	438 19	310 81	
Overdrawn			1,103 60

BENTLEY ALLEY OPENING—			
Overdrawn January 1, 1880.....		\$705 30	
Receipts.....		588 88	
Overdrawn.....			\$226 51
BEECH STREET SEWER—			
Overdrawn January 1, 1880.....		53 76	
Receipts.....	\$588 61		
Disbursements.....	535 00	53 61	
Overdrawn.....			15
BAILEY STREET—			
Overdrawn January 1, 1880.....		269 44	
Disbursements.....	2,122 00		
Receipts.....	1,848 29	273 71	
Overdrawn.....			548 15
BROADWAY SEWER—			
Overdrawn January 1, 1880.....		904 26	
Receipts.....	3,817 72		
Disbursements.....	2,906 00	821 72	
Overdrawn.....			172 54
BURTON STREET—			
Overdrawn January 1, 1880.....		444 72	
Overdrawn.....			444 72
BECKER AVENUE, DAMAGES			
Overdrawn January 1, 1880.....		869 44	
Receipts.....	2,929 12		
Disbursements.....	2,198 49	730 63	
Overdrawn.....			138 81
CEDAR AVENUE, MACADAMIZING—			
Balance to credit January 1, 1880.....		674 94	
Disbursements.....	3,476 00		
Receipts.....	2,753 69	722 31	
Overdrawn.....			47 37

CHESTNUT RIDGE MACADAMIZING—			
Balance to credit January 1, 1880		\$4,165 82	
Disbursements	\$11,958 00		
Receipts	7,196 68	4,761 82	
Overdrawn			\$595 50
COMMERCIAL STREET SEWER—			
Balance to credit January 1, 1880		202 42	
Disbursements	2,420 00		
Receipts	2,049 38	370 62	
Overdrawn			78 20
COLUMBUS STREET—			
Overdrawn Jan. 1, 1880		17,777 70	
Receipts	48,378 69		
Disbursements	40,598 27	7,780 42	
Overdrawn			9,997 28
DELINQUENT SIDEWALK FUND—			
Overdrawn Jan. 1, 1880		1,304 20	
Disbursements	1,491 44		
Receipts	54 66	1,436 78	
Overdrawn			2,740 98
DETROIT STREET—			
Overdrawn Jan. 1, 1880		1,053 73	
Receipts	8 485 46		
Disbursements	7,538 00	947 46	
Overdrawn			106 27
EUCLID AVENUE, PAVING—			
Balance to credit Jan. 1, 1880		1,400 57	
Disbursements	11,763 38		
Receipts	9,316 25	2,447 13	
Overdrawn			966 56
EAST PROSPECT STREET, DAMAGES—			
Balance to credit Jan. 1, 1880		256 06	
Disbursements	1,385 00		
Receipts	18 05	1,366 95	
Overdrawn			1,110 89

EUCLID AVE., WEST OF ERIE ST—			
Overdrawn Jan. 1, 1880.....		\$166.47	
Disbursements.....	\$11,200 00		
Receipts.....	11,191 74	8 26	
Overdrawn.....			\$174. 73
EUCLID AVENUE, MACADAMIZING—			
Overdrawn Jan. 1, 1880.....		2,613 56	
Receipts.....	3,330 96		
Disbursements.....	6,494 54	1,896 42	
Overdrawn.....			777 14
EUCLID AVENUE, RE-PAVING—			
Overdrawn Jan. 1, 1880.....		480 96	
Receipts.....		41 96	
Overdrawn.....			438 97
EUCLID AVENUE, DAMAGES—			
Overdrawn Jan. 1, 1880.....		104 35	
Receipts.....	2,257 44		
Disbursements.....	2,280 00	22 56	
Overdrawn.....			126 91
ERIE STREET, DAMAGES—			
Overdrawn Jan. 1, 1880.....		173 13	
Receipts.....		94 33	
Overdrawn.....			78 80
GERMAN STREET—			
Balance to credit Jan. 1, 1880.....		4 75	
Disbursements.....	318 00		
Receipts.....	296 98	19 02	
Overdrawn.....			14 27
GRAND AVENUE, DAMAGES—			
Balance to credit Jan. 1, 1880.....		818 30	
Disbursements.....	4,730 50		
Receipts.....	3,068 64	1,661 96	
Overdrawn.....			843 66

GRAND AVENUE—		
Balance to credit Jan. 1, 1880.....		\$1,821 33
Disbursements	\$9,479 21	
Receipts.....	7,447 54	2,081 67
Overdrawn		\$210 34
GIDDINGS AVENUE—		
Overdrawn Jan. 1, 1880.....		103 81
Disbursements.....		1,391 00
Overdrawn		1,494 81
GARDEN STREET, SEWER—		
Overdrawn Jan. 1, 1880		2,291 00
Receipts.....	2,396 08	
Disbursements.....	2,140 00	256 08
Overdrawn.....		2,084 92
HAMILTON STREET—		
Overdrawn Jan. 1, 1880.....		450 80
Receipts	1,278 37	
Disbursements.....	863 75	414 62
Overdrawn.....		36 18
HODGE AVENUE, DAMAGES—		
Overdrawn Jan. 1, 1880		274 08
Overdrawn		274 08
HOUGH AVENUE—		
Overdrawn Jan. 1, 1880.....		3,185 88
Disbursements.....	3,763 79	
Receipts.....	3,726 15	37 64
Overdrawn.....		3,223 52
HARVARD STREET—		
Overdrawn Jan. 1, 1880.....		317 00
Receipts.....	2,915 04	
Disbursements.....	2,883 00	32 04
Overdrawn.....		284 96
HARVARD STREET, DAMAGES—		
Overdrawn Jan. 1, 1880		109 72
Receipts	896 08	
Disbursements.....	856 00	40 08
Overdrawn.....		69 64

HERMAN STREET—			
Overdrawn Jan. 1, 1880		\$1,568 10	
Receipts	\$2,453 62		
Disbursements	962 00	1,491 62	
Overdrawn			\$76 48
HAIGHT STREET—			
Overdrawn Jan 1, 1880		121 60	
Overdrawn			121 60
HODGE STREET, DAMAGES—			
Overdrawn Jan. 1, 1880		572 18	
Overdrawn			572 18
JENNINGS AVENUE—			
Overdrawn Jan. 1, 1880		1,506 12	
Disbursements	3,883 00		
Receipts	2,891 88	991 12	
Overdrawn			2,497 24
KINSMAN STREET, REPAVING—			
Balance to credit Jan. 1, 1880		35 10	
Disbursements	6,017 00		
Receipts	1,381 90	4,635 10	
Overdrawn			4,600 00
KENNARD STREET, BRANCH SEWER—			
Overdrawn Jan. 1, 1880		191 25	
Receipts	756 58		
Disbursements	642 00	113 58	
Overdrawn			77 67
LAKE STREET—			
Overdrawn Jan. 1, 1880		431 27	
Disbursements	10,477 13		
Receipts	9,963 37	513 76	
Overdrawn			975 03
LINCOLN AVENUE, DAMAGES—			
Overdrawn Jan. 1, 1880		1,237 89	
Disbursements	2,247 00		
Receipts	2,139 10	107 90	
Overdrawn			1,345 79

MULBERRY STREET—			
Overdrawn Jan. 1, 1880		\$163 35	
Disbursements		1,060 00	
Overdrawn			\$1,223 35
MILES STREET, DAMAGES—			
Overdrawn Jan. 1, 1880 ..		325 63	
Disbursements	\$1,928 00		
Receipts	1,791 41	134 59	
Overdrawn			460 22
MARCH STREET, DAMAGES—			
Overdrawn Jan. 1, 1880 ..		2,350 34	
Disbursements	2,140 00		
Receipts	1,252 96	887 04	
Overdrawn			3,737 38
PEARL STREET—			
Overdrawn Jan. 1, 1880 ..		4,924 70	
Receipts		572 35	
Overdrawn			4,352 35
QUINCY STREET—			
Balance to credit Jan. 1, 1880 ..		337 33	
Disbursements	1,168 00		
Receipts	666 17	499 83	
Overdrawn			162 50
RUSSELL AVENUE, DAMAGES—			
Overdrawn Jan. 1, 1880 ..		2,217 35	
Receipts	7,328 63		
Disbursements	5,662 56	1,666 07	
Overdrawn			551 28
SEWER DISTRICT NO. 2			
Overdrawn Jan. 1, 1880 ..		384 51	
Disbursements	14,346 00		
Receipts	* 13,639 75	706 25	
Overdrawn			1,040 76
SUMMIT STREET, DAMAGES—			
Balance to credit Jan. 1, 1880 ..		3,622 47	
Disbursements	10,151 00		
Receipts	6,008 57	4,147 43	
Overdrawn			524 96

ST. PAUL STREET—		
Balance to credit Jan. 1, 1880.....		\$24 97
Disbursements.....	\$950 00	
Receipts.....	899 32	50 68
Overdrawn.....		\$25 71
ST. CLAIR STREET, DAMAGES—		
Balance to credit Jan. 1, 1880.....		2,134 59
Disbursements.....	34,572 03	
Receipts.....	31,964 12	2,607 91
Overdrawn.....		473 32
SUPERIOR STREET, DAMAGES—		
Overdrawn Jan. 1, 1880.....		41 71
Disbursements.....	6,380 00	
Receipts.....	4,068 00	2,272 00
Overdrawn.....		2,313 71
ST. CLAIR STREET, SEWER		
Overdrawn Jan. 1, 1880.....		272 57
Disbursements.....	11,980 35	
Receipts.....	11,376 81	583 54
Overdrawn.....		856 11
SUPERIOR STREET SEWER		
Overdrawn Jan. 1, 1880.....		1,133 95
Receipts.....	2,935 82	
Disbursements.....	2,490 20	505 62
Overdrawn.....		628 33
ST. CLAIR STREET—		
Overdrawn Jan. 1, 1880.....		8,437 44
Receipts.....	15,584 24	
Disbursements.....	7,728 00	7,856 24
Overdrawn.....		581 20
WEST RIVER STREET—		
Overdrawn Jan. 1, 1880.....		2,851 90
Receipts.....		1,065 30
Overdrawn ..		1,786 60
WADE PARK AVENUE—		
Overdrawn Jan. 1, 1880.....		3,245 77
Disbursements.....	7,308 57	
Receipts.....	3,572.42	3,736 15
Overdrawn.....		6,981 92

WAVERLY AVENUE—			
Overdrawn Jan. 1, 1880.....		\$337 39	
Receipts.....		18 21	
Overdrawn.....			\$319 18
WARNER STREET—			
Overdrawn Jan. 1, 1880.....		2,519 38	
Receipts.....	\$3,881 88		
Disbursements.....	1,445 00	2,436 88	
Overdrawn.....			82 50
WADE PARK AVENUE, DAMAGES—			
Overdrawn Jan. 1, 1880.....		7,674 73	
Receipts.....	14,262 76		
Disbursements.....	12,622 80	1,639 96	
Overdrawn.....			6,034 77
WOODLAND HILLS AVE., DAMAGES—			
Overdrawn Jan 1, 1880.....		263 62	
Receipts.....	4,527 06		
Disbursements.....	4,811 00	16 06	
Overdrawn.....			247 56
Balance Cash on hand.....			266,008 04
			\$380,124 34

C R.

ARMORY FUND—			
Balance to credit Jan. 1, 1880		\$7,825 34	
Receipts from W. H. Eckman, City Cl'k.	\$305 00		
" " Market fund.....	6,000 00		
	6,305 00		
Disbursements	13,519 85	7,214 95	
Balance			\$610 39
BRIDGE FUND—			
Balance to credit Jan. 1, 1880		857 55	
Receipts from County Treasurer.....	31,868 72		
" " other sources.....	766 30		
	32,635 02		
Disbursements	33,166 46	531 44	
Balance			326 11
BROWNELL STREET—			
Balance to credit Jan. 1, 1880		4,285 82	
Disbursements	5,700 00		
Receipts	4,979 50	720 50	
Balance			3,585 32
BOND STREET DAMAGES—			
Balance to credit Jan. 1, 1880		1,541 95	
Receipts	71,694 27		
Disbursements	66,198 89	5,496 38	
Balance			7,037 33
BANK STREET—			
Overdrawn Jan. 1, 1880		13 97	
Receipts	9,411 62		
Disbursements	9,048 02	363 60	
Balance			349 63

BOND STREET—			
Overdrawn Jan. 1, 1880.....		\$948 13	
Receipts.....	\$1,500 59		
Disbursements.....	152 46	1,348 13	
Balance.....			\$400 00
CEMETERY FUND—			
Balance to credit Jan. 1, 1880.....		3,648 30	
Disbursements.....		385 12	
Balance.....			3,263 18
CANAL FUND—			
Balance to credit Jan. 1, 1880.....		959 14	
Receipts.....		16 50	
Balance.....			975 64
CLARK AVENUE—			
Receipts.....		168 45	
Balance.....			168 45
CENTRAL PLACE OPENING—			
Balance to credit Jan. 1, 1880.....		1,184 77	
Receipts.....	30,719 24		
Disbursements.....	27,405 60	3,313 64	
Balance.....			4,498 41
CENTRAL WAY BRANCH SEWER—			
Balance to credit Jan. 1, 1880.....		1,408 29	
Disbursements.....		1,141 35	
Balance.....			266 94
COMMERCIAL STREET—			
Balance to credit Jan. 1, 1880.....		483 11	
Receipts.....	2,574 75		
Disbursements.....	2,280 00	294 75	
Balance.....			777 86
CEDAR AVENUE—			
Balance to credit Jan. 1, 1880.....		835 07	
Disbursements.....	250 00		
Receipts.....	75 29	174 71	
Balance.....			660 36

CASE AVENUE—			
Balance to credit Jan 1, 1880.....		\$267 83	
Receipts.....	\$5,564 25		
Disbursements.....	4,724 00	840 25	
Balance.....			\$1,096 08
CUSTEAD AVENUE—			
Overdrawn Jan. 1, 1880.....		2 32	
Receipts.....	1,084 53		
Disbursements.....	120 00	914 53	
Balance.....			912 21
CENTRAL WAY—			
Overdrawn Jan. 1, 1880.....		62 26	
Receipts.....	9,463 01		
Disbursements.....	8,578 00	885 01	
Balance.....			822 75
CUYAHOGA RIVER DREDGING FUND			
Overdrawn Jan. 1, 1880.....		1,498 53	
Receipts from County Treasurer....	46,068 69		
Disbursements.....	44,527 67	1,541 02	
Balance.....			42 49
DUNHAM AVENUE SEWER—			
Receipts.....		2,244 95	
Disbursements.....		2,155 88	
Balance.....			89 07
ERIE STREET—			
Balance to credit Jan. 1, 1880.....		356 82	
Disbursements.....		200 00	
Balance.....			156 82
EAST MADISON AVENUE—			
Balance to credit Jan. 1, 1880.....		2,338 87	
Disbursements.....	1,072 11		
Receipts.....	8 42	1,683 69	
Balance.....			675 18
EAGLE STREET—			
Overdrawn Jan. 1, 1880.....		397 97	
Receipts.....	3,516 38		
Disbursements.....	2,885 00	631 38	
Balance.....			233 41

CITY TREASURER'S REPORT.

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FIRE DEPARTMENT FUND—		
Balance to credit Jan. 1, 1880.....		\$18,942 08
Receipts from County Treasurer.	\$134,980 12	
" " A. J. Spencer, Sec'y. . .	1,386 09	
" " other sources.....	844 09	
	137,199 30	
Disbursements	148,418 35	11,219 05
Balance.....		\$2,723 88
FAIRMOUNT STREET MACADAMIZING		
Balance to credit Jan. 1, 1880		877 98
Disbursements	1,386 09	
Receipts.....	1,129 77	206 23
Balance.....		671 73
FAIRFIELD STREET—		
Balance to credit Jan. 1, 1880		575 32
Disbursements		125 32
Balance.....		450 00
FOREST STREET—		
Balance to credit Jan. 1, 1880.....		1,200 02
Disbursements		500 02
Balance.....		700 00
GENERAL FUND—		
Balance to credit Jan. 1, 1880.....		12,362 14
Receipts from County Treasurer	99,450 94	
" " sale of Frankfort Street		
Armory.....	16,200 00	
Receipts from City Hall rents.....	8,580 78	
" " general licenses.....	4,965 78	
" " pounds.....	177 50	
" " hay-scales.....	1,963 80	
" " other sources	9,079 45	
	140,408 25	
Disbursements	117,880 89	23,047 36
Balance.....		35,409 50
GARDEN STREET—		
Balance to credit Jan. 1, 1880.....		4,636 32
Disbursements		200 00
Balance.....		4,436 32
HOUSE OF CORRECTION FUND—		
Balance to credit Jan. 1, 1880.....		22,906 17
Receipts from County Treasurer.....	19,706 37	
" " W. D. Patterson, Sec'y....	77,736 00	
" " other sources.....	86 58	
	97,528 95	
Disbursements	113,134 31	15,605 36
Balance.....		7,300 81

HODGE AVENUE—			
Balance to credit January 1, 1880		\$621 65	
Balance			\$621 65
HERALD STREET DAMAGES—			
Balance to credit Jan. 1, 1880		3 82	
Receipts		282 04	
Balance			285 86
HERALD STREET—			
Balance to credit Jan. 1, 1880		1,291 66	
Disbursements	\$39,459 38		
Receipts	38,789 88	669 50	
Balance			622 16
HEMLOCK STREET—			
Balance to credit Jan. 1, 1880		610 03	
Disbursements		214 30	
Balance			395 73
ISABELLA STREET—			
Receipts		151 63	
Balance			151 63
IONA STREET—			
Receipts		149 60	
Balance			149 60
INFIRMARY FUND—			
Balance to credit Jan. 1, 1880		37,723 31	
Receipts from County Treasurer	19,549 03		
" " J. Blum, Clerk	2,008 17		
" " W. H. Eckman, City Cl'k.	4,097 00		
" " other sources	90 72		
	25,744 92		
Disbursements	44,655 13	18,910 21	
Balance			18,813 10
JUNCTION STREET—			
Balance to credit Jan. 1, 1880		4,362 92	
Receipts	20,887 49		
Disbursements	20,022 58	864 91	
Balance			5,227 83

INTEREST FUND—			
Balance to credit Jan. 1, 1880.....		\$4,015 84	
Receipts from County Treasurer	\$348,078 26		
" " sale of bonds.....	18,484 76		
" " Water Works Fund.....	40,000 00		
" " other sources	13,064 54		
	419,627 56		
Disbursements.....	402,082 50	17,545 06	
Balance.....			\$21,560 90
KINSMAN STREET—			
Overdrawn Jan. 1, 1880		4,958 80	
Receipts	105,542 39		
Disbursements	94,912 00	10,629 79	
Balance.....			5,670 99
LIGHTING FUND—			
Balance to credit Jan. 1, 1880.....		19,701 08	
Receipts from County Treasurer.....	63,032 74		
" " Market fund.....	7,500 00		
" " W. H. Eckman, City Cl'k.....	3,751 00		
" " other sources	34 19		
	75,217 93		
Disbursements	90,385 22	15,167 29	
Balance			4,533 79
LINCOLN AVE -			
Balance to credit Jan. 1, 1880.....		790 17	
Disbursements.....	1,710 00		
Receipts	1,648 03	61 97	
Balance.....			724 20
LORAIN STREET—			
Balance to credit Jan. 1, 1880.....		925 29	
Receipts	3,283 08		
Disbursements	2,404 42	878 66	
Balance			1,803 95
MARQUETTE STREET—			
Balance to credit January 1, 1880		5 24	
Receipts	5,110 05		
Disbursements	5,086 08	24 05	
Balance.....			29 29

MARKET FUND—			
Balance to credit Jan. 1, 1880		\$0,105 14	
Receipts from Premium and rents....	\$21,600 71		
Disbursements	26,440 58	4,830 87	
Balance.....			\$1,265 27
NORTH WOODLAND AVENUE--			
Balance to credit Jan. 1, 1880		042 15	
Disbursements		300 00	
Balance.....			642 15
ORANGE STREET DAMAGES—			
Balance to credit Jan. 1, 1880.....		101 87	
Receipts	625 56		
Disbursements	594 00	31 56	
Balance			133 43
ONTARIO STREET--			
Balance to credit Jan. 1, 1880.....		911 36	
Disbursements	3,124 30		
Receipts	2,513 03	611 36	
Balance.....			300 00
POLICE COURT FUND—			
Balance to credit Jan. 1, 1880.....		844 83	
Receipts from W. Baxter, Clerk....	9,088 86		
“ “ W. D. Patterson, Sup't....	1,918 08		
“ “ other sources	361 00		
	12,367 94		
Disbursements	11,317 69	950 25	
Balance.....			1,705 08
PARK FUND—			
Balance to credit Jan. 1, 1880		3,001 00	
Receipts from County Treasurer.....	7,103 64		
“ “ other sources.....	3,253 80		
	10,357 44		
Disbursements	10,877 20	510 76	
Balance.....			2,481 33

POLICE DEPARTMENT FUND—			
Balance to credit Jan. 1, 1880.....		\$8,993 11	
Receipts from County Treasurer.....	\$142,072 75		
" " Thomas King, Secretary.....	736 67		
" " other sources.....	67 14		
	142,876 56		
Disbursements.....	145,476 18	2,599 62	
Balance.....			\$5,793 49
PEARL STREET DAMAGES—			
Balance to credit Jan. 1, 1880.....		45 05	
Balance.....			45 05
PROSPECT STREET REPAVING—			
Balance to credit Jan. 1, 1880.....		2,423 05	
Receipts.....	6,242 43		
Disbursements.....	6,171 00	71 43	
Balance.....			2,494 48
PAYNE AVE. DAMAGES—			
Balance to credit Jan. 1, 1880.....		2,825 20	
Receipts.....	292,945 37		
Disbursements.....	197,749 75	95,195 62	
Balance.....			98,020 88
PERRY STREET—			
Balance to credit Jan. 1, 1880.....		1,500 71	
Receipts.....	2,295 67		
Disbursements.....	2,064 00	201 67	
Balance.....			1,702 38
PROSPECT STREET—			
Balance to credit Jan. 1, 1880.....		2,264 68	
Receipts.....		20 64	
Balance.....			2,285 32
PELTON PARK—			
Receipts.....		17,759 09	
Disbursements.....		16,666 66	
Balance.....			1,092 43
QUINCY STREET DAMAGES—			
Balance to credit Jan. 1, 1880.....		36 39	
Receipts.....		62 52	
Balance.....			98 91

SEWER DISTRICT NO. 1—		
Overdrawn Jan. 1, 1880		\$1,019 38
Receipts	\$9,441 01	
Disbursements	8,401 00	1,040 01
Balance		\$20 63
SEWER DISTRICT NO. 3—		
Overdrawn Jan. 1, 1880		7,159 71
Receipts	22,080 48	
Disbursements	13,715 97	8,364 51
Balance		1,204 80
SEWER DISTRICT NO. 4—		
Balance to credit Jan. 1, 1880		3,359 19
Disbursements		920 00
Balance		2,439 19
SEWER DISTRICT NO. 5—		
Overdrawn Jan. 1, 1880		6,757 07
Receipts	19,685 00	
Disbursements	12,024 00	7,661 09
Balance		904 02
SEWER DISTRICT NO. 6		
Balance to credit Jan. 1, 1880		768 05
Balance		768 05
SEWER DISTRICT NO. 7—		
Overdrawn Jan. 1, 1880		1,990 41
Receipts	36,381 40	
Disbursements	33,400 32	2,981 08
Balance		940 67
SEWER DISTRICT NO. 8		
Balance to credit Jan. 1, 1880		677 63
Balance		677 33
SEWER DISTRICT NO. 9 -		
Balance to credit Jan. 1, 1880		60 98
Receipts		21 01
Balance		81 99

SEWER DISTRICT NO. 10—			
Overdrawn Jan. 1, 1880.....		\$1,196 59	
Receipts.....	\$1,620 65		
Disbursements.....	321 00	1,299 65	
Balance.....			\$103 06
SEWER DISTRICT NO. 11—			
Balance to credit Jan. 1, 1880.....		253 22	
Disbursements.....	1,070 00		
Receipts.....	802 67	177 33	
Balance.....			75 89
SEWER DISTRICT NO. 12—			
Balance to credit Jan. 1, 1880.....		381 57	
Disbursements.....	8,386 00		
Receipts.....	8,218 62	174 38	
Balance.....			207 19
SEWER DISTRICTS NOS. 1 & 2, E. C.—			
Overdrawn Jan. 1, 1880.....		488 64	
Receipts.....	14,909 99		
Disbursements.....	12,315 70	2,594 29	
Balance.....			2,105 65
SEWER DISTRICT NO. 3, E. C.—			
Balance to credit Jan 1, 1880.....		654 82	
Disbursements.....		449 00	
Balance.....			205 22
SPECIAL ROAD FUND—			
Balance to credit Jan. 1, 1880.....		3,006 66	
Disbursements.....	713 21		
Receipts.....	324 93	388 28	
Balance.....			2,618 38
STREET FUND—			
Balance to credit Jan. 1, 1880.....		4,663 18	
Receipts from County Treasurer.....	60,380 92		
" " repairs on streets.....	2,715 50		
" " other sources.....	1,542 32		
	64,638 74		
Disbursements.....	62,496 74	2,142 00	
Balance.....			6,805 18

STONE'S LEVEE—		
Balance to credit Jan. 1, 1880.....		\$677 87
Disbursements.....	\$2,340 00	
Receipts.....	1,768 97	571 08
Balance.....		\$106 84
SEYLER ALLEY—		
Balance to credit Jan. 1, 1880.....		633 79
Balance.....		633 79
SENECA STREET—		
Balance to credit Jan. 1, 1880.....		2,346 61
Receipts.....	6,218 41	
Disbursements.....	6,165 00	53 41
Balance.....		2,400 02
SLATER STREET DAMAGES—		
Balance to credit Jan. 1, 1880.....		7,068 99
Disbursements.....	6,017 00	
Receipts.....	1,912 68	4,104 32
Balance.....		3,864 67
SENECA STREET DAMAGES—		
Balance to credit Jan. 1, 1880.....		3,753 50
Receipts.....	32,914 78	
Disbursements.....	25,108 74	7,806 04
Balance.....		11,559 54
SCOVILL AVENUE—		
Balance to credit Jan. 1, 1880.....		379 39
Disbursements.....	3,388 00	
Receipts.....	3,126 27	261 73
Balance.....		117 66
STREET INTERSECTION FUND—		
Overdrawn Jan. 1, 1880.....		7,067 73
Receipts.....	67,803 03	
Disbursements.....	38,205 64	29,597 39
Balance.....		22,509 66
SANITARY FUND—		
Receipts from Transfer from Police Fund.....	7,300 00	
Receipts from W. H. Farrand, Sec'y..	284 33	7,584 33
Disbursements.....		7,537 08
Balance.....		47 25

TOD STREET—

Balance to credit Jan. 1, 1880		\$1,134 57
Disbursements	\$500 00	
Receipts	11 91	488 00

Balance

\$646 18

UNIVERSITY STREET DAMAGES—

Balance to credit Jan. 1, 1880		388 07
Disbursements	150 00	
Receipts	20 11	129 80

Balance.....

258 18

VEGA AVENUE—

Balance to credit Jan. 1, 1880		94 38
Receipts	144 40	
Disbursements	94 38	50 02

Balance

144 40

VIADUCT FUND—

Balance to credit Jan. 1, 1880		2 491 31
Disbursements	4,682 30	
Receipts	3,213 25	1,460 05

Balance.....

1,022 26

VIADUCT SINKING FUND—

Balance to credit Jan. 1, 1880		337 75
Receipts from County Treasurer	17,750 09	
" " rents	252 50	
" " sale of land	1,910 00	

19,921 59

Disbursements	19,060 09	871 50
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Balance

1,200 25

WEDDELL STREET—

Balance to credit Jan. 1, 1880		731 96
Balance		

731 96

WILSON AVENUE—

Balance to credit Jan. 1, 1880		7,655 91
Disbursements	28,130 97	
Receipts	22,465 74	5,665 23

Balance

1,000 68

WILLSON AVENUE DAMAGES—			
Balance to credit Jan. 1, 1880.....		\$1,588 43	
Receipts.....	\$19,805 61		
Disbursements.....	19,175 11	730 50	
Balance.....			\$2,308 93
WOODLAND AVENUE—			
Overdrawn Jan. 1, 1880.....		1,966 27	
Receipts.....	74 122 47		
Disbursements.....	66,687 98	7,434 49	
Balance.....			5,468 22
WOODLAND HILLS AVENUE—			
Overdrawn Jan. 1, 1880.....		867 59	
Receipts.....	7,345 15		
Disbursements.....	6,437 00	908 15	
Balance.....			40 56
WATER WORKS FUND—			
Balance to credit Jan. 1880.....		47,543 20	
Receipts from H. C. Hawkins, Sec'y....	204,536 73		
" " other sources.....	105 82		
	204,642 55		
Disbursements.....	203,626 06	1,016 49	
Balance.....			48,559 69
			380,124 34
Jan. 1st, 1881. Balance, Cash on hand..			\$226,008 04

Respectfully submitted.

S. T. EVERETT,

CITY TREASURER.

ANNUAL REPORT

OF THE

Sinking Fund Commissioners

OF THE

CITY OF CLEVELAND.

FOR THE

YEAR ENDING DECEMBER 31st, 1880.

REPORT OF

SINKING FUND COMMISSIONERS.

To the Honorable City Council of Cleveland :

The Sinking Fund Commissioners in compliance with law submit their Report for the year 1880 :

FIRST WATER WORKS SINKING FUND.

NINETEENTH ANNUAL STATEMENT.

The gross income for the year is.....	\$136,820 21
The expense for the year is.....	658 50
	<hr/>
Leaving the net income.....	\$136,161 71

CASH RECEIPTS.

Jan 15—Quarterly dividend on \$200,000 stock N. Y. C. R'y, 2 per cent.....	\$ 4,000 00
Feb. 1—Semi-annual dividend on \$500,000 stock L. S. & M. S. R'y, 4 per cent.....	20,000 00
April 1—Semi-annual interest on \$176,000 L. S. & M. S. R'y, 7 per cent bonds.....	6,160 00
Semi-annual interest on \$17,000 L. S. & M. S. R'y, 7 per cent bonds.....	595 00
Semi-annual interest on \$40,000 Cleveland City 7 per cent bonds.....	1,400 00
Semi-annual dividend on \$50,000 K. A. & G. R. R. stock 3 per cent.....	1,500 00
April 15—Quarterly dividend on \$200,000 stock N. Y. C. R'y, at 2 per cent.....	4,000 00

April 29—Semi-annual interest on individual notes.....	4,101 30
June 1— " " " \$25,000 C. & I. R'y 7 per cent bonds.....	875 00
Semi-annual interest on \$52,000 L. S. & M. S. R'y, 7 per cent bonds.....	1,820 00
Semi-annual interest on \$250,000 C. & N. W. R'y, 7 per cent bonds.....	8,750 00
Semi-annual interest on \$100,000 Chicago & A. Bridge Co. 7 per cent bonds.....	3,500 00
June 15—Semi-annual interest on \$50,000 Valley R'y, 7 per cent bonds.....	1,750 00
July 1—Semi-annual interest on \$20,000 J. & F. R'y. 7 per cent bonds.....	700 00
Semi-annual interest on \$300,000 Cleveland City, 7 per cent.....	10,500 00
Interest on deposits.....	665 99
For Jamestown & Franklin R. R. bonds mat- ured	10,000 00
July 15—Quarterly dividend on \$200,000 stock N. Y. C. R'y, 2 per cent.....	4,000 00
Principal individual notes paid.....	117,180 00
Interest on same.....	2,256 28
Aug. 1—Semi-annual dividend on \$500,000 stock L. S. & M. S. R'y, 4 per cent.....	20,000 00
Aug. 28—Interest on deposits.....	525 17
Sept. 6—Sale of \$25,000 C. & I. R. R. 7 per cent bonds Interest accrued on same.....	25,000 00 437 50
Oct. 1—Semi-annual interest on \$176,000 L. S. & M. S. R'y 7 per cent bonds.....	6,160 00
Semi-annual interest on \$17,000 L. S. & M. S. R'y, 7 per cent bonds.....	595 00
Semi-annual interest on \$40,000 Cleveland City 7 per cent bonds.....	1,400 00
Semi-annual dividend on \$50,000 stock K. A. & G. R. R, 3 per cent.....	1,500 00
3—Sale of 500 shares stock L. S. & M. S. R'y, at 107 $\frac{3}{8}$ - $\frac{1}{8}$	53,625 00
Sale of 500 shares stock L. S. & M. S. R'y, at 108 $\frac{3}{4}$ - $\frac{1}{8}$	54,125 00
15—Quarterly dividend on \$200,000 stock N. Y. C. R'y, 2 per cent.....	4,000 00

SINKING FUND COMMISSIONERS' REPORT.

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Dec.	1—Semi-annual interest on \$52,000 L. S. & M. S. R'y. 7 per cent bonds.....	1,820 00
	Semi-annual interest on \$250,000 C. & N. W. R'y. 7 per cent bonds.....	8,750 00
	Semi-annual interest on \$100,000 C. & A. Bridge Co, 7 per cent bonds.....	3,500 00
	3—Sale of 600 shares stock L. S. & M. S. R'y, at $123\frac{1}{2}-\frac{1}{8}$	74,025 00
	Sale of 100 shares stock L. S. & M. S. R'y, at $123\frac{3}{8}-\frac{1}{8}$	12,350 00
	15—Semi-annual interest on \$50,000 Valley R'y. 7 per cent bonds.....	1,750 00
1881.		
Jan.	1—Semi-annual interest on \$300,000 Cleveland City 7 per cent bonds.....	10,500 00
	Semi-annual interest on \$10,000 J. & F. R. R. 7 per cent bonds.....	350 00
	Cash on hand Jan. 1880 as per report.....	90,152 50
		<hr/>
		\$574,318 74

CASH EXPENDITURES.

1880.		
Jan.	26—Purchase individual note, principal.....\$	58,590 00
	Interest accrued on same.....	1,002 53
Sept.	1—Payment of Cleveland City bonds upon the requisition of the City Auditor as per ordinance of City Council, passed July 19, 1880.....	317,759 95
Oct.	1—Payment of water works bonds matured.....	75,000 00
1881.		
Jan.	1—Payment of water works bonds matured.....	100,000 00
	Express charges on coupons to New York for the year.....	42 23
	Expenses for the year.....	658 50
	Cash on deposit.....	21,265 53
		<hr/>
		\$574,318 74

The following items constitute the Water Works Sinking Fund, January 1st, 1881 :

3,300 shares stock L. S. & M. S. R'y Co.....	Par value \$	330,000 00
2,000 shares stock N. Y. C. & H. R. R'y Co, " "		200,000 00
500 " " Kalamazoo, Allegan & Grand Rapids R. R. Co,	Par value	50,000 00
Cleveland City water works 7 per cent bonds....	Par value	300,000 00
" " House Correction 7 per cent bonds, Par value		40,000 00
L. S. & M. S. R'y Co, " " "		245,000 00
C. & N. W. R'y " " "		250,000 00
Chicago and Atchison Bridge Co, " " "		100,000 00
Valley Railway " " "		50,000 00
Jamestown & Franklin R. R. " " "		10,000 00
Cash on deposit.....		21,265 53
Total.....		\$1,596,265 53

SECOND.

VIADUCT SINKING FUND.

SECOND ANNUAL STATEMENT.

The income for the year is..... \$ 22,451 65

CASH RECEIPTS.

April	1—Semi-annual dividend on \$50,000 stock K. A. & Grand Rapids R. R., at 3 per cent.....	1,500 00
	22—Of City Treasurer, proceeds of tax.....	10,958 15
June	15—Semi-annual interest on \$265,000 Valley R'y 7 per cent bonds.....	9,275 00
July	1—Interest on deposits.....	167 04
Aug.	28— " " "	178 14
Sept.	10—Of City Treasurer, proceeds of tax.....	8,091 94
Oct.	1—Semi-annual dividend on \$50,000 stock K. A. & Grand Rapids R. R., at 3 per cent.....	1,500 00
Dec.	1—Semi-annual interest on \$25,000 C. & I. R. R. 7 per cent bonds.....	875 00
	Semi-annual interest on \$265,000 Valley R'y 7 per cent bonds.....	9,275 00
1881.		
Jan.	1—Interest on deposits.....	119 72
Cash on hand Jan. 1880 as per report.....		3,297 24
		<hr/>
		\$45,237 23

CASH EXPENDITURES.

1880.

Sept.	6—Purchase of \$25,000 C. & I. R'y, 7 per cent bonds at par.	\$25,000 00
	Interest accrued on same.....	437 50
Dec.	1—Express charges on coupons to New York.....	75

1881.

Jan.	1—Cash on deposit.....	19,798 98
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 \$45,237 23

The following items constitute the Viaduct Sinking Fund

Jan. 1st, 1881 :

Valley R'y 7 per cent bonds, par value.....	\$265,000 00
C. & I. R. R, 7 per cent bonds, par value.....	25,000 00
Kalamazoo Allegan & Grand Rapids Railroad Co. stock par value	50,000 00
Cash on deposit.....	19,798 98
Total.....	<hr/> \$359,798 98

THIRD.

GENERAL SINKING FUND.

SECOND ANNUAL STATEMENT.

CASH RECEIPTS.

1880.

April 22—Of City Treasurer, proceeds of tax.....	\$ 46,315 07
Aug. 18—Interest on deposits.....	395 70
Sept. 9—Of City Treasurer, proceeds of tax.....	32,824 94

1881.

Jan'y 1—Interest on deposits.....	76 52
Cash on deposit January 1880, as per report....	20,895 13

 \$100,507 36

CASH EXPENDITURES.

1880.

Jan.	1—City Treasurer to redeem City Bonds matured..	\$ 20,895 13
April 22—	“ “ “ “ matured	
	January 1	13,104 87

May 1—City Treasurer to redeem City Bonds matured	
May 1.....	5,000 00
Aug. 30—City Treasurer to redeem City Bonds maturing	
September 1.....	28,605 90
Sept. 10—City Treasurer to redeem City Bonds matured	
September 1.....	21,394 10
Oct. 1—City Treasurer to redeem City Bonds matured	
Oct. 1.....	6,000 00
Cash on deposit January 1, 1881.....	5,507 36
	<hr/>
	\$100,507 36

The assets of the General Sinking Fund are

Cash on deposit.....	\$ 5,507 36
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RECAPITULATION OF ASSETS.

Water Works Sinking Fund, par value.....	\$1,596,265 53
Viaduct Sinking Fund, ".....	359,798 98
General Sinking Fund, ".....	5,507 36

Grand Total,	\$1,961,571 87
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CLEVELAND CITY BONDS REDUCED FROM WATER WORKS SINKING FUND.

Water Works Bonds to date of last report	\$450,000 00
Water Works Bonds during the year 1880	175,000 00
Other city bonds " "	317,759 95

Total amount redeemed	\$ 942,759 95
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Respectfully submitted,

H. B. PAYNE,	} Sinking Fund Commissioners,
W. BINGHAM,	
CHARLES HICKOX,	
J. H. WADE,	
S. T. EVERETT,	

CLEVELAND, January 3, 1881.

ANNUAL REPORT
OF THE
CITY CLERK,
OF THE
CITY OF CLEVELAND.

For the Year Ending December 31, 1880.

CITY CLERK'S REPORT.

To the Honorable City Council :

GENTLEMEN—I have the honor to submit herewith a report of the business transacted in this department during the year ending December 31st, 1880.

LICENSES.

The total number of licenses of all classes issued during the year has been 5,868, for which \$12,747 53 have been collected, and paid into the Treasury as provided by ordinance, as follows:

To the credit of the general fund	-	\$4,469 53
“ “ “ Infirmary fund		1,068 00
“ “ “ Lighting fund		3,751 00
“ “ “ Armory fund		455 00
“ “ “ Police fund	-	4 00

Total	-	\$12,747 53
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As compared with last year, this shows a decrease in the number of licenses issued of 3,405, and in the revenue of \$390 22. This is wholly due to the failure to enforce the ordinance requiring a license to be paid on dogs, as the revenue derived from all classes of licenses other than the dog license during the past year is nearly 17 per cent. greater than that collected in 1879.

There is such manifest injustice in a partial enforcement of any law or ordinance imposing a tax of any character upon the citizen, that I am impelled to again direct the attention of your Honorable Body to the "dog license." The degree of diligent enforcement of the ordinance may be fairly stated as being in direct ratio to the result, and the result during the past four years is shown in the following exhibit of the number of "dog licenses" issued in the years named :

1877	.	.	.	.	.	10,088
1878	.	.	.	.	.	7,947
1879	.	.	.	.	.	6,816
1880	.	.	.	.	.	3,371

It would seem that every dog, whether of high or low degree, should be placed upon the same footing in the community.

The ordinance requiring newsboys and bootblacks to procure a license and badge has, in its effect, been productive of good in raising the morale of the juvenile merchants resident here and in largely decreasing the periodical visitation of a migratory class of boys who commit many depredations and exert an injurious influence on our boys during their sojourn.

The use of the public thoroughfares by venders, hawkers, exhibitors, etc.; the occupancy of sidewalks and gutters by curb-stone merchants, and the selling by auction of goods imported into the city, might well be made subject to license under such conditions as would grant no right beyond the right to barter or sell.

Under the Municipal Code your Honorable Body may impose a license upon other occupations and branches of business from which a considerable revenue would be derived without injustice to any one.

The following is an exhibit in detail of the licenses issued during the year, showing the number issued and the amount collected in each class :

CLASS.	NUMBER.	AMOUNT.
Exhibitions	54	\$ 450 00
Peddlers	1199	4,068 00
Cabs, omnibuses and hacks.	108	531 00
Street cars	33	1,020 28
Drays, carts and wagons	370	740 00
Drivers	21	21 00
Pawnbrokers ..	11	550 00
Intelligence and employment office	2	20 00
Dogs	3371	3,755 00
Ferries	5	50 00
Slaughtering cattle	7	35 00
Harbors and Wharves	19	886 00
Newsboys and bootblacks ..	645	181 25
Soap manufactory	1	5 00
Armory	24	455 00
Total	5868	\$12,747 53

PRINTING, STATIONERY, SUPPLIES, ETC.

The total expenditure for blank books, printing and stationery supplies of every description furnished to the several departments during the year has been \$5,046 96. The following exhibit will show the amount as charged to each department and the nature of the supplies furnished :

The following is a statement in detail of the supplies furnished the departments during the year :

Departments.	Blank Books.	Printing.	Papers and Envelopes.	Stationery, Sundries.	Lithographing.	Engineer's Supplies.	Total.
Mayor ..	25 29	90 37	80	2 43	7 50	.....	136 39
Board of Improvements.....	60 22	16 01	12 84	17 89	.....	.....	108 96
Fire Department ..	12 90	77 68	8 43	7 01	11 00	.....	117 02
Police Department ..	92 54	232 01	80 36	46 62	30 80	.....	482 35
Police Court Department..	53 80	98 72	13 00	10 84	6 00	.....	172 36
Workhouse ..	181 53	58 00	149 62	38 41	80 80	.....	508 36
Infirmary Department.....	53 04	50 98	21 39	28 38	.....	.....	153 73
Water Works ..	72 72	140 95	4 26	12 29	.....	.....	230 22
City Civil Engineer.....	111 62	23 01	22 31	44 40	.....	38 19	239 53
Street Commissioners.....	50 65	28 00	7 69	21 49	18 05	.....	125 98
City Auditor.....	268 87	173 37	43 51	35 67	210 00	.....	728 62
City Treasurer ..	46 98	5 50	9 39	8 52	.....	.....	70 39
City Clerk.....	207 00	832 20	153 23	108 54	69 50	.....	1,370 47
City Solicitor.....	7 50	43 62	22 27	16 13	.....	.....	80 42
Markets ..	10	6 80	85	8 18	.....	.....	15 93
Board of Health ..	214 47	216 78	4 06	3 51	31 50	.....	470 22
Assessing Boards ..	50	.....	29	1 30	.....	.....	2 09
Cemeteries.....	9 94	2 00	7 07	3 91	6 00	.....	28 92
Total.....	1,468 71	2,081 10	561 39	415 42	471 15	38 19	5,046 96

ADVERTISING.

The following is a statement of the cost of all advertising done during the year as charged to the several departments :

DEPARTMENTS.	AMOUNT.
Mayor	495 82
City Clerk.....	4,828 34
City Auditor.....	129 54
City Treasurer.....	60 93
City Civil Engineer	299 69
Board of Improvements.....	69 07
Board of Fire Commissioners.....	19 93
Board of Police Commissioners	24 88
Board of Workhouse Directors.....	57 27
Board of Infirmary Directors.....	114 85
Board of Water Works Trustees.....	106 30
Board of Health.....	14 43
Committee on Markets	30 68
Board of Cemetery Trustees	11 80
Total	6,328 48

MISCELLANEOUS MATTERS.

During the year ending December 31st, there have been introduced into the Council 209 ordinances, and 1,018 resolutions. Of the ordinances 159 were finally passed, 5 have been laid on the table, 16 have been otherwise disposed of, and 29 remain pending further action.

There have been 52 regular meetings, at one of which no quorum was present, two special, and three adjourned.

OBITUARY.

Mr. Henry Hoffman, Trustee from the twelfth ward, died on the 23d day of November, 1880.

Mr. Hoffman served as a Trustee from the twelfth ward

during 1874-5 and was elected April 7th, 1879, to fill the unexpired term of Mr. Frank Rieley, resigned.

A special meeting of the Council was called by his Honor, the Mayor, for Tuesday, November 3rd, at which meeting the following resolutions of respect were adopted :

WHEREAS, In the death of Henry Hoffman, who for nearly four years represented the Twelfth Ward upon the floor of this Council, we recognize the loss of a zealous and capable official, whose unswerving integrity of purpose, faithful discharge of public trust and other sterling traits of character won for him the confidence and esteem of his fellow members of this body and the respect and consideration of his constituents and of the public. Therefore be it

RESOLVED, That as a mark of respect for the deceased trustee, the proceedings of this special meeting be spread at large upon the journal, and be it further

RESOLVED, That we tender to the family of the deceased our sincere and heartfelt sympathies in their bereavement, and that the City Clerk be, and he is hereby directed to transmit to the family an engrossed copy of these resolutions: and be it further

RESOLVED, That as a further mark of respect to the memory of the deceased, this Council attend the funeral in a body.

Respectfully Submitted,

W. H. ECKMAN,

City Clerk.

ANNUAL REPORT

OF THE

CITY SOLICITOR

OF THE

CITY OF CLEVELAND.

FOR THE

YEAR ENDING DECEMBER 31, 1880

CITY SOLICITOR'S REPORT.

To the City Council :

I have the pleasure of presenting herewith my Sixth Annual Report, showing the present status of the legal business of the city, and am happy in being able to assure the Council that the law department of the city has been so administered and conducted that during my two official terms, embracing a period of six years last past, the city has suffered no serious disaster in its litigation. The apparent exception of the Lenze case, noted in the tables and explained in my first annual report, does not properly belong to my administration, being litigated for years, and the law of the case decided by the Supreme Court and remanded for a hearing as to the amount of damages before I came into office. The present state and past history of the city's litigation is shown by the accompanying tables, which furnish full information touching its controversies in the courts. By a reference to the table of cases pending at the close of the municipal year, it will be seen that the number of cases pending at the commencement of my official term was ninety, and the number at the close thereof is two hundred and twenty-two, a large increase in the actual litigation and consequently increasing in like proportion the general and special business incident to the Solicitor's office.

The numerous references of questions to the Solicitor for his official opinion, or disposition, is quite sufficient to occupy his time and is the most important part of his services, for upon the wise disposition of these questions depends the freedom of the city from an avalanche of suits for damages ; for, if the city is careful not to render itself liable for damages to persons or property, it thereby avoids disastrous litigation. I

have made it a point while I have held the office of City Solicitor to weigh carefully every question where damages were claimed against the corporation, and if legal liability existed, to cause a settlement to be made.

The tax cases tried during the last year were all of them levied before the decision of the courts had been made upon our system of levying and assessing special taxes, and had been levied according to the mode of doing that branch of legal business before the present Solicitor's induction to office, and, inasmuch as the system was new, and had never been condemned by the courts, and was according to the views of most lawyers, and had undergone test and had never been tried in the court of last resort, the method was adopted in the doing of that branch of the municipal business. The cases were brought by the property holders to enjoin the collection of these taxes, and upon the trial of them in the Court of Common Pleas, they were decided in favor of the city on the questions raised, and upon hearing in the District Court, where they were taken by the property owners, the decision was again rendered in favor of the city ; but the Supreme Court decided them against the city, and thus made new assessments necessary.

In making the new assessments after the adverse decision of the Supreme Court, it was deemed advisable to throw off a large amount of the assessments formerly made, and allow that part to go on the general duplicate, supposing that if these assessments were made light for the property owners to bear, they would be promptly paid, and this perplexing question would be forever disposed of. But our experience has taught us better, for, strange as it may seem, these new assessments have met with the same determined opposition as the original ones did, and now we have all these new assessments enjoined in the courts.

These assessments were made necessary to pay for costly improvements which were carried on at a time when speculation

was rife, and rise in values was prevalent ; and, now that those times have passed away, and the cost and expense of these improvements are to be paid for at a time of universal depression in finances, they are stubbornly resisted. In this lies the lesson to be learned by extravagant expenditure on credit. I believe the only safe course to pursue in making local improvements is to make them when the corporation has first levied and collected the tax therefor and has the money in her treasury wherewith to pay for each and every piece of work. The policy of issuing the bonds of the city to pay for such improvements, and then being liable to have the taxes litigated, subjecting the city treasury to long years of delay in collecting the same, is not in my judgment a wise policy, and should at once be discontinued.

In the beginning of my official term, I selected for my assistants John F. Weh and F. T. Wallace, whose services in those capacities have shown for six years a full knowledge of their duties and a willingness to perform them, and I take great pleasure in saying that on account of their ability and faithfulness, I have thus re-appointed them from year to year.

WM. HEISLEY,

City Solicitor.

March 22d, 1881.

REPORT OF CITY'S LITIGATION FOR THE YEAR 1880.

 CASES PENDING JANUARY 1, 1880

On the first day of January, 1880, there were pending in the various State and United States Courts, to which the City of Cleveland was a party, or in which it was directly interested, *two hundred and twenty-five* cases, distributed as follows :

Supreme Court of Ohio.....	9
District Court of Cuyahoga County.....	14
Common Pleas Court of Cuyahoga County.....	198
Circuit Court of United States	3
Magistrates' Courts of Cuyahoga County.....	1
Total number of cases.....	225

 CASES COMMENCED DURING 1880.

There were commenced during the year 1880, in the various State and United States Courts, *one hundred and five* cases, wherein the City of Cleveland was a party, or in which it was interested, distributed as follows :

Supreme Court of Ohio.....	4
District Court of Cuyahoga County.....	15
Common Pleas Court of Cuyahoga County.....	68
Circuit Court of United States.....	3
Probate Court of Cuyahoga County.....	7
Police Court of the City of Cleveland.....	3
Magistrates' Courts of Cuyahoga County.....	10
Total number of cases.....	105

Number of cases pending in said courts on the first day of January, 1880, and commenced during said year, 330.

CASES DISPOSED OF DURING 1880.

There were disposed of during the year 1880 *one hundred and eight* cases, distributed as follows :

Supreme Court of Ohio.....	5
District Court of Cuyahoga County.....	9
Common Pleas Court of Cuyahoga County.....	73
Circuit Court of United States.....	2
Probate Court of Cuyahoga County.....	6
Police Court of the City of Cleveland.....	3
Magistrates' Courts of Cuyahoga County.....	10

Total number of cases..... 108

CASES PENDING JANUARY 1, 1881.

Leaving *two hundred and twenty-two* cases pending in said Courts on the first day of January, 1881, distributed as follows :

Supreme Court of Ohio.....	8
District Court of Cuyahoga County.....	20
Common Pleas Court of Cuyahoga County.....	188
Circuit Court of United States.....	4
Probate Court of Cuyahoga County.....	1
Magistrates' Courts of Cuyahoga County.....	1

Total number of cases..... 222

SUITS AGAINST THE CITY.

ANALYSIS OF CASES BROUGHT AGAINST THE CITY WHERE- IN MONEY WAS SOUGHT, PENDING JANUARY 1, 1880, AND COMMENCED DURING SAID YEAR.

Of the cases pending on the first day of January, 1880, *one hundred and thirty-five* were suits in which money compensation was claimed for injuries to the property and person through the alleged fault of the city.

The amount claimed in these cases was as follows :

In 122 cases for injury to property.....	\$ 251,649 56
In 13 cases for injury to person.....	75,000 00
Total amount claimed.....	<u>\$ 326,649 56</u>

Of the cases commenced during the year 1880, *thirty-nine* were suits in which money compensation was claimed for injuries to property and person through the alleged fault of the city.

The amount claimed in these cases was as follows :

In 36 cases for injury to property.....	\$ 62,588 47
In 3 cases for injury to person.....	25,000 00
Total amount claimed.....	<u>\$ 87,588 47</u>

Total amount of damage claimed for injuries to the property and person of litigants through the alleged fault of the city, in cases pending on the first day of January, 1880, and commenced during said year :

In 158 cases for injury to property.....	\$314,238 08
In 16 cases for injury to person.....	100,000 00
Total amount claimed.....	<u>\$414,238 08</u>

Of the *one hundred and fifty-eight* cases for injury to property above enumerated, *one hundred and nine* were suits against the County Treasurers to recover assessments paid that had been levied by the city and collected by said Treasurers, wherein the sum of \$49,648 93 was claimed.

SUITS FOR THE CITY.

ANALYSIS OF CASES BROUGHT BY THE CITY PENDING JAN- UARY 1, 1880, AND COMMENCED DURING SAID YEAR.

The number of cases pending on the first day of January, 1880, and commenced during said year, brought by the city, were *twenty-nine*.

The amounts involved in these cases were as follows :

In 14 cases pending January 1, 1880.....	\$ 99,117 15
In 15 cases commenced during 1880.....	21,708 87
Total amount involved.....	<hr/> \$120,826 02

Six of these case were disposed of during 1880. as follows :

City vs. Cement Pipe Co., judgment for.....	\$ 800 00
City vs. Brooklyn Street Railroad Co., judgment for	9,400 49
Total amount of judgments.....	<hr/> \$10,200 49

The remaining four cases were settled by the city without being brought to trial.

APPROPRIATION CASES APPEALED FROM PROBATE COURT.

There were *two* cases of this character pending in the Court of Common Pleas, appealed by the claimants from the Probate Court, wherein damages were claimed and awarded in the latter Court as follows :

NAME OF STREET.	AMOUNT CLAIMED.	AMOUNT AWARDED.
Warner Road	\$10,000 00	\$ 150 00
Marquette Street	26,000 00	25,500 00
Total.....	\$36,000 00	\$25,650 00

The above cases were disposed of by the claimants taking the awards of the Probate Court.

SUITS TO RECOVER BACK TAXES AND ASSESSMENTS.

There were pending on the first day of January, 1880, and commenced during said year, *one hundred and nine* cases against the former and present County Treasurer, to recover back taxes and assessments collected by them for the city, involving amounts as follows:

In 90 cases pending January 1, 1880.....	\$41,267 49
In 19 cases commenced during 1880.....	8,381 44
Total amount claimed.....	\$49,648 93

Of said *one hundred and nine* cases there were disposed of during the year 1880 *twenty-four* cases. The plaintiffs in said disposed of cases recovered the last payment sued for by them, on the ground that the assessments in controversy were illegal and paid under protest; but failed to recover for the prior payments, as the suits therefor were not commenced within one year from the payments thereof.

The amount sued for in said 24 cases was \$26,460.33. The amount recovered in said cases was \$7,840 37.

In each of these cases re-assessments have been made and levied by the city, and it will probably collect the full amount recovered above.

**AMOUNT SOUGHT TO BE RECOVERED IN CASES AGAINST
AND FOR THE CITY.**

The amount sought to be recovered in the various suits against and for the city pending January 1, 1880, and commenced during said year, exclusive of injunction suits to restrain the collection of special assessments and general taxes levied by the city, ejectment suits wherein only real property is sought to be recovered, appropriation suits, and other suits in which no pecuniary compensation is demanded, is as follows :

In cases pending January 1, 1880,

Against the city.....	\$326,649 56
For the city.....	99,117 15
Total amount pending January 1, 1880.....	<u>\$425,766 71</u>

In cases commenced during 1880,

Against the city.....	\$ 87,588 47
For the city.....	21,826 02
Total amount commenced during 1880.....	<u>\$109,415 49</u>
Total amount sought to be recovered.....	<u>\$535,181 20</u>

ANALYSIS OF CASES DISPOSED OF DURING 1880.

Of the cases disposed of during the year 1880, *nineteen* were suits wherein damage was claimed for injuries done to the property and person of litigants through the alleged fault of the city. These cases do not include suits for back taxes.

Amount claimed in the above disposed of cases :

In 15 cases for damage to property.....	\$26,742 60
In 4 cases for damage to person.....	22,000 00
Total amount claimed.....	<u>\$48,742 60</u>

There were but *two* recoveries in the Courts on the part of the plaintiffs in these cases, as follows:

TITLE OF CASES.	AMOUNT CLAIMED.	AMT. GIVEN BY THE JURY.
Landreth vs. City.....	\$ 5,000 00	\$ 100 00
Rothenbuecher vs. City.....	279 00	279 00
Total amount.....	\$ 5,279 00	\$ 379 00

In the Landreth case the city succeeded in collecting the amount of the verdict from the person owning the property in front of which the injury was sustained.

Several of the foregoing cases were considered meritorious by this department, and the same were compromised and settled without coming to trial.

The remaining cases disposed of during 1880 were of an equitable nature, wherein no pecuniary compensation was demanded; such as error cases from Police Court, habeas corpus cases, injunction suits, actions for the possession of real property, etc.

It may be proper to make special mention of some of the more important cases disposed of during the year 1880.

I. CLEVELAND LIBRARY ASSOCIATION v. PELTON.

In this case the plaintiff sought to have its real property, known as Case Block, exempted from taxation, on the ground that it was an institution of purely public charity, and that all moneys derived from renting a portion of the building were devoted to the maintenance of the library. The case went through the Common Pleas, District and Supreme Courts, where it was finally determined that the portion of the land and building used for library and historical purposes should be exempt

from taxation, but that the part rented out for profit should be taxed as other property.

II. TEACHOUT ET AL. V. CITY OF CLEVELAND.

In this case the City had paid a contractor the full amount of his bill for work performed upon the Infirmary buildings, less a small balance, as the work had been substantially done, but not formally accepted by the trustees. Several material men filed claims with the city after payment as above, for the amount due them for furnishing material to the contractor, and upon refusal of payment, sued the City for the amount paid the contractor, on the ground that the City should have retained the amount due the contractor until acceptance of the work by the city, so as to be subject to the unpaid claims of material and under men. The Court held that the City had paid the contractor in good faith, without knowledge that the contractor owed his material men, and therefore should not pay for the work a second time. The amount involved in this case, including interest, was about \$900 00.

III. LANDRETH V. CITY OF CLEVELAND,

Plaintiff fell over a water-box standing in the middle of a sidewalk on Detroit Street, and projecting above the surface of the walk several inches, whereby he was severely and permanently injured. He sued for \$5,000 00 damage, and the jury awarded him \$100 00. In this case the City required the owner of the sidewalk, who negligently placed and left standing the water-box in an exposed and dangerous position, to pay it the amount of the judgment, on the ground that owners of sidewalks are responsible over to the City for keeping them in good condition. It will thus be seen that it is very important for property owners to keep the sidewalks in front of their premises free from defects and dangerous obstructions.

IV. DUSECK V. CITY OF CLEVELAND.

The plaintiff owned a lot bordering upon a ravine through which flowed a small stream of water. The City graded sev-

eral streets in such manner as to allow the water falling thereon to flow into said stream, above the plaintiff's land. The quantity of water in the stream was thereby largely increased, which resulted in washing away a considerable portion of plaintiff's land. Plaintiff sued the City for \$800 00 damage. The Court ruled that the City had the right to utilize flowing streams of water to carry off surface water from streets, even though it increased the quantity of water in the streams. The jury found for the City.

V. KILCOYNE V. CITY OF CLEVELAND.

Plaintiff's son, about eight years of age, fell into an excavation filled with water, made by the contractor of the Viaduct for one of the piers of said structure, and was drowned. The next of kin sued the City for \$10,000. The Court ruled that by the death of a person so young nothing more than nominal damages would accrue to those having an interest in his existence. The jury, however, found there was no negligence on the part of the City in not keeping up barriers around the excavation where located, and returned a verdict for the City.

VI. CUYAHOGA AGRICULTURAL SOCIETY V. CITY OF CLEVELAND.

In this case the City appropriated a piece of land for the extension of Willson avenue. The Cuyahoga County Agricultural Society had a lease of the land appropriated, which would not expire until two years after the time of the appropriation. In addition to making the owner in fee an award for the value of the land, the jury impaneled in the case gave said Society an award of \$530 00 for its interest in the land sought to be taken. The City refused to pay the award to the Society, and did not take possession of the land to open the street until after the expiration of the lease. The Society then sued the City for the amount of the award and interest. The Court decided that the City had taken no part of the estate or interest of the Society in the land, and therefore was under no obligation to pay the award as made by the jury in the Probate Court.

VII. WAGNER V. BECK, SÜPT. OF MARKETS.

Plaintiff sued the defendant for \$2,000 00 damage to his reputation, on account of publishing in the daily papers of the city a statement to the effect that plaintiff had sold a load of coal containing a less number of pounds than it was billed for. It seems that defendant, as Superintendent of the Markets, caused a large number of persons selling coal in the city, among whom was the plaintiff, to have their coal, as contained in their wagons found upon the streets, weighed at the City scales. The scales were out of order at the time of weighing the coal, but without the knowledge of the defendant, which caused the coal to appear to weigh less than its real weight. The Court charged the jury that if the defendant acted in good faith in the line of his duty in weighing the coal, he could not be held liable, even though he made a mistake to the detriment of the plaintiff. The jury found for the defendant.

VIII. NEEDHAM V. CITY OF CLEVELAND.

The plaintiff fell into a catch-basin and was severely injured. He alleged that the covering was defective, and placed his damage at \$5,000 00. Upon all the testimony as to the condition of the covering, its liability to come off, and the knowledge of the City as to its condition, the jury found for the City.

IX. SHERMAN V. CITY OF CLEVELAND.

This case was brought in the United States Circuit Court, the plaintiff being a non-resident of the State, for damage done to his property on account of the City emptying one of its sewers into a stream of water flowing through his premises. The jury found that the offensive matter flowing into the stream came from other sources than the sewer, and gave a verdict for the City. The amount sued for was \$5,000 00. This case was important, as an equity suit was commenced at the same time by the plaintiff to enjoin the City from using the sewer, but upon being beaten in the damage case he dismissed the equity suit,

and built a covered sewer through his premises, which confined the stench that arose from the stream and obviated the difficulty before then experienced.

X. HILL V. HERRICK, ET AL., COMMISSIONERS OF BOARD OF HEALTH.

Plaintiffs sued the members of the Board of Health of the City for adjudging their rendering and fertilizing establishment a nuisance and taking steps to abate the same. They claimed \$10,000 00 damages and asked that the officers of the City be enjoined from enforcing the order of the Board of Health. After taking upwards of one hundred affidavits to show the condition of the rendering and fertilizing establishment, and that the same was a public nuisance, the plaintiffs dismissed their action and paid the costs made therein.

XI. CITY V. BROOKLYN STREET R. R. Co.

The City sued the Railroad Company for the expense of grading and paving between the rails of its tracks on Columbus street, from Walworth Run to the southerly limits of the City. A large number of defenses were made by the defendant, but the jury gave the City a verdict for the entire claim, viz: \$9,400 49.

XII. CITY V. CEMENT PIPE COMPANY.

In this case the City sued the Cement Pipe Company for the use of land the City had acquired in appropriating land for opening and extending Payne avenue, and recovered \$800 00.

PROBATE COURT BUSINESS.

The only case brought by the city in the Probate Court during the year 1880, was an action to appropriate a strip of land for the purpose of enlarging the West Side Market grounds.

NAME OF CASE.	IMPROVEMENT.	AMOUNT OF AWARD.
City vs. Pollock, et al.....	Land taken for market ground purposes.	\$11,475 00

It was deemed expedient in this case to reject the award of the jury, on the ground that it was too high, and subsequently the land desired was purchased by the city at a reduced price.

VALUE OF LAND APPROPRIATED SINCE 1872.

To show the value of land appropriated for street, park and other purposes during the various years since 1872, when the law was changed allowing the cost and expense of opening or widening a street to be specially levied upon the property benefited, I append the following table :

Value of land appropriated in 1872.....	\$ 742,871 63
“ “ “ 1873.....	741,144 07
“ “ “ 1874.....	247,425 77
“ “ “ 1875.....	169,711 52
“ “ “ 1876.....	58,799 91
“ “ “ 1877, including purchase of land for Viaduct east of the river, suit commenced but not prosecuted.....	318,186 00

Value of land appropriated in 1878.....	5,860 00
“ “ “ 1879.....	200 00
“ “ “ 1880 (same afterwards purchased for less money).....	11,475 00
Total value.....	<u>\$ 2,295,174 50</u>

STREET GRADING CASES.

During the past two years there has been but little, if any, grading of streets by the city, and, therefore, no cases were brought to ascertain the damage committed to the abutting property by reason thereof. I append, however, a table showing the result of this class of cases in former years.

A TABULAR STATEMENT OF THE CASES TRIED IN THE PROBATE COURT TO ASSESS THE DAMAGES DONE TO
PROPERTY OWNERS CAUSED BY GRADING AND IMPROVING STREETS IN FRONT OF THEIR PROP-
ERTY DURING A PERIOD OF NINE YEARS, ENDING WITH DECEMBER 31, 1878,
IS HEREWITH PRESENTED.

	Year End- ing April 1, 1870.	Year End- ing April 1, 1871.	Year End- ing April 1, 1872.	Year End- ing Dec. 31, 1873.	Year End- ing Dec 31, 1874	Year End- ing Dec 31, 1875.	Year End- ing Dec 31, 1876.	Year End- ing Dec 31, 1877	Year End- ing Dec 31, 1878.
Cases Tried	5	9	12	12	9	11	15	14	3
Damages Claimed	\$34,189 00	\$122,775 00	\$83,080 00	\$31,979 00	\$90,475 00	\$44,166 25	\$157,441 00	\$105,685 00	\$27,400 00
Damages Awarded	\$6,869 00	\$23,078 00.	\$16,794 00	\$6,749 85	\$21,233 25	\$2,460 00	\$18,143 20	\$3,138 12	\$2,579 45
Percent. awarded on amount claimed	20%	18%	20	21	21½	5½	11½	3	9%

NATURE OF CASES DISPOSED OF DURING 1880.

The nature of the proceedings in the disposed of cases during the year 1880 was as follows :

Actions for recovering back assessments.....	24
Actions for enjoining collection of assessments.....	14
Actions for enjoining collection of general taxes.....	6
Error cases from Police Court.....	6
Damages for injury to the person.....	5
Criminal actions against policemen.....	4
Damage cases, for injury to property.....	4
Actions to subject money in possession of city.....	4
Actions where city is garnishee.....	4
Actions on account.....	4
Habeas corpus cases.....	4
Actions for rent on lease.....	4
Criminal cases in Police Court.....	3
Actions for recovering back general taxes.....	2
Actions to foreclose street railroads.....	2
Actions to foreclose land.....	2
Appeal cases from Probate Court, appropriation.....	2
Actions to foreclose street property.....	2
Actions on attested accounts.....	2
Actions for wages.....	2
Action to appropriate land.....	1
Action for assessment against railroad.....	1
Action for right of way of railroad.....	1
Action on contract.....	1
Action on award.....	1
Action to quiet title to land.....	1
Action for boarding pauper.....	1
Action on garnishee process.....	1
Total number of cases disposed of during 1880.....	108

NATURE OF CASES PENDING JANUARY 1, 1881.

The nature of the proceedings in the cases pending January 1, 1881, was as follows :

Actions for recovering back assessments.....	90
Actions for enjoining collection of assessments.....	33
Damage cases for injury to property.....	16

Damage cases for injury to the person.....	11
Error cases from Police Court.....	8
Actions for enjoining collection of general taxes.....	7
Actions to subject money in possession of city.....	7
Actions to foreclose land.....	7
Actions for assessments against railroads.....	4
Actions on bonds.....	4
Actions to foreclose street property.....	3
Actions for general taxes against individuals.....	2
Actions on garnishee process.....	2
Actions on replevin.....	2
Actions for rent on lease.....	2
Actions on contract.....	2
Actions on attested accounts.....	2
Actions on account.....	2
Actions for wages.....	2
Actions to set aside tax sales.....	2
Actions on awards.....	2
Action for infringement of patent.....	1
Action for recovering back general taxes.....	1
Action for assessment against individual.....	1
Action where city is garnishee.....	1
Action enjoining city from using street.....	1
Action in ejectment.....	1
Suit for value of gravel road.....	1

Total number of cases pending January 1, 1881..... 222 .

TABULAR STATEMENT OF THE AMOUNT SOUGHT TO BE RECOVERED, AND THE AMOUNT ACTUALLY RECOVERED, IN THE DISPOSED OF CASES AGAINST THE CITY FOR THE PRECEDING ELEVEN YEARS, WHEREIN DAMAGE TO THE PROPERTY AND PERSON OF THE LITIGANT WAS CLAIMED THROUGH THE ALLEGED FAULT OF THE CITY.

DISPOSED OF CASES	Year ending April 1, 1870.	Year ending April 1, 1871.	Year ending April 1, 1872.	Year ending Dec. 31, 1872.	Year ending Dec. 31, 1873.	Year ending Dec. 31, 1874.	Year ending Dec. 31, 1875.	Year ending Dec. 31, 1876.	Year ending Dec. 31, 1877.	Year ending Dec. 31, 1878.	Year ending Dec. 31, 1879.	Year ending Dec. 31, 1880.
NO. OF CASES.		46	39	43	70	87	94	85	97	170	108	
Amount claimed.....	\$15,150 00	\$51,500 00	\$25,817 20	\$10,500 00	\$34,967 00	\$114,379 00	\$40,447 07	\$98,265 00	\$44,586 00	\$100,026 34	\$48,742 60	
Amount recovered.....	\$240 00	\$1,000 00	\$386 14	\$1,650 00	\$767 00	\$250 00	\$9,079 25	\$4,423 62	\$412 00	\$150 00	\$379 00	

This statement is not complete, as there was no report for the year ending December 31, 1873, owing to the illness of the City Solicitor. The municipal year formerly closed April 1st of each year, while it now closes with December 31st of each year.

A FURTHER STATEMENT FOR THE PAST SEVEN YEARS IS AS FOLLOWS:

	1874	1875	1876	1877	1878	1879	1880
Amount sought to be recovered in cases pending at the close of the year	\$131,620 00	\$144,686 17	\$151,671 28	\$124,338 00	\$380,328 44	\$461,328 98	\$428,766 71
Amount sought to be recovered in cases pending at the beginning of and instituted during the year.		\$259,079 17	\$192,118 07	\$212,600 00	\$384,911 44	\$561,352 32	\$535,181 20

The last two statements do not contain the amount claimed and awarded in cases brought by the City for the appropriation of real property for street and other purposes, nor the amount of damages claimed and awarded to property owners for grading and improving streets, as these amounts are paid by special assessment levied upon benefited property and not by general taxation.

GENERAL STATEMENT OF CITY'S LITIGATION.

FOR THE PURPOSE OF SHOWING THE EXTENT AND INCREASE OF THE CITY'S LITIGATION DURING THE PAST TEN YEARS, THE FOLLOWING STATEMENT IS PRESENTED:

	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880
Cases pending at beginning of year.....	65	17	37	81	90	99	114	154	155	225
Cases commenced during the year.....	28	50	90	79	96	108	125	98	240	105
Cases pending at beginning of and commenced during the year.....	63	78	127	160	186	208	239	252	395	330
Cases disposed of during the year.....	46	30	46	70	87	94	85	97	170	108
Cases pending at end of year.....	17	37	81	90	99	114	154	155	525	222

AN EPITOME OF THE CITY'S LITIGATION DURING THE LAST SIX YEARS.

The present City Solicitor has had charge of the City's litigation during the past *six* years. A brief summary of the court business of the City during said time is therefore presented, in order to exhibit the scope and extent of the City's litigation in the various courts under the management of the present legal department.

There were pending in the various courts on the first day of January, 1875, to which the City was a party or in which it was directly interested, 90 cases.

Although the present Solicitor did not assume the duties of his office until the middle of April, 1875, the municipal year commenced on the first day of January, 1875, from which time the annual report of that year was made up and tabulated.

There were commenced in the various courts during the past six years, ending December 31, 1880, to which the city was a party or in which it was directly interested, 773 cases.

Of said cases there were disposed of during said time 641 cases, leaving 222 cases pending on the first day of January, 1881.

The total sum sought to be recovered from the City in said 641 disposed of cases, wherein the litigants claimed pecuniary damage to their property or person through the alleged fault of the City, amounted to \$146,444 01.

The total amount recovered from the City in said cases was \$13,930 22.

In this connection it may be proper to remark that the case of *Lenze v. The City*, wherein the plaintiff recovered a judgment of \$8,975 00 from the City, nearly one-half of which consisted of interest, was virtually disposed of before the present Solicitor took possession of his office, the legal principles

having been argued by his predecessors and determined by the Supreme Court against the City, leaving nothing for the present Solicitor to do but to ascertain the damage done to the plaintiff through the fault of the City.

The amount therefore really recovered from the City in cases brought for damage to the property or person of litigants through the alleged fault of the City during the past six years was only \$4,955 22.

The only cases of this character wherein the city was beaten are the following :

TITLE OF CASE.	NATURE OF CASE.	Amount claimed.	Amount recovered.
1. Lenze vs. City ..	Damage for tearing down building on Seneca St.	\$13,000 00	\$8,975 00
2. Smith vs. City ...	Extra work in building new Water works pumping establishment	32,000 00	4,296 22
3. Stein vs. City	Rental of rooms for Gas inspection purposes.....	130 00	130 00
4. Horrigan vs. City.	Injury to woman by falling into catch basin, through defective covering.	2,500 00	100 00
5. Stohlman vs. City	Injury to wagon through defect left standing in street.....	137 00	50 00
6. Landreth vs. City.	Injury to man by falling over defect in side-walk.	5,000 00	100 00
7. Rothenbucher v. C.	Failure to keep money from contractor and pay underman.	279 00	279 00
		\$53,046 00	\$13,930 22

Total amount involved in the disposed of damage cases, in which the city was victorious as well as beaten, was \$446,444 01.

It will thus be seen that notwithstanding the large number of suits constantly brought against the City for damage to the person and property of litigants through the alleged fault or negligence of the City, numbering several hundred in the past six years, wherein immense sums of money were sought to be recovered from the City, aggregating during the past six years nearly half a million of dollars, the number of recoveries and the amounts thereof have been comparatively insignificant.

During the past six years the City has recovered judgments against persons and corporations sued by it for water rents, room rents, land leases, street railroad taxes, etc., amounting to \$66,734 66.

In the Probate Court lands were appropriated for street, viaduct, (suit commenced, but land afterwards purchased at private sale,) market, sewer and bridge purposes, the values of which as awarded by the juries, including said purchase of viaduct land, amounted to \$563,732 43.

In said Probate Court some 43 cases were also brought by the City to ascertain the damage to abutting property by reason of grading streets in front thereof, wherein the owners of the land claimed damage to the amount of \$334,692 25.

In said cases the abutting property owners were awarded by the juries impaneled to ascertain the damage done to them, the sum of \$26,320 86.

Thus far reference has been made only to cases wherein pecuniary compensation was demanded by litigants on account of injury done them by the City, but a large proportion of the litigation of the City during the past six years has consisted of cases wherein relief was sought of a totally different character, as in ejectment suits, for the possession of real property, error cases from the Police Court, for illegal conviction of criminals, and especially in injunction suits, for restraining the City and its agents from collecting a vast amount of special assessments and general taxes levied by it, and other suits growing out of the collection of such assessments and taxes, to recover the

same from the County Treasurers, who were the collectors for the City.

These tax cases have involved nearly two millions of dollars, and have been fought through all the courts with varying success to both parties, but in the end it is thought the City will succeed in collecting the greater part of the special assessments and general taxes levied by it for local improvements and general purposes.

The re-assessments made by the City in conformity to the principles laid down by the Supreme Court, have nearly all been attacked by aggrieved tax-payers, and the same are now pending in the various courts awaiting the determination of the facts and principles involved therein by the courts of higher jurisdiction.

ANNUAL REPORT
OF THE
CITY CIVIL ENGINEER,

OF THE
CITY OF CLEVELAND,

For the Year Ending December 31, 1880.

CITY CIVIL ENGINEER'S REPORT.

To the Honorable Board of Improvements :

GENTLEMEN:—I respectfully submit the Annual Report of the City Civil Engineer's Department for the year ending December 31st, 1880.

The total cost of all work done under the supervision of this department during the year is \$65,872 11. This amount includes streets graded and built, and paid for by the property owners, without resorting to taxation. The above amount does not include the cost of repairs and maintenance of the city bridges, which for the past year amounted to \$5,036 00.

The bridges over the old canal bed, now occupied by the Valley Railway Company, at the crossing of Factory and Commercial streets, were, when first erected, placed upon wooden piers or abutments, with timber approaches, which have required extensive repairs during the past year, they should be replaced with stone abutments and earth filling for the approaches as soon as the funds to do the work can be procured. The masonry of the abutments of the bridges over the Valley Railway Company tracks at South Water, Seneca and Jefferson streets, which rests on piles, will have to be repaired during the coming year, as draining the water out of the canal has left the piles exposed to the air.

The pier at the north end of the Seneca street drawbridge, which had moved latterly into the river, as reported in the last annual report, has not moved any for some months. The build-

ing of docks on either side and the removal of the earth that formed the towpath of the canal has relieved the pressure behind the pier to such an extent that it will be safe to rebuild the pier—it may not be necessary to do it during 1881, as the trestle work put up to carry the bridge over the railway tracks will carry it a year or two longer.

Means should be provided to rebuild the north abutment of the Columbus street bridge during 1881, also remove the bridge at Swiss street, build a culvert and fill over it with earth to the grade of the street. It has cost the city to employ a watchman on this bridge during the last six years about \$2,160 00. The cost of filling it up and making a permanent roadway across the ravine, will be about \$6,000 00. The bridge rests on wooden piers and abutments and extensive repairs have been made on it from time to time. The bridge is of iron, and is a very light structure.

Considerable repairs have been made on Main and Willow street draw-bridges, the large number of swings made causes the tracks, wheels and center bearings to wear rapidly.

The Viaduct draw is now, and has been, in good order during the season. The upper story of the stove works has been removed, so that the draw can now be swung away from boats passing up or down the river; until this was done the arm over the river channel had to be swung down stream or towards all craft going up the river, which in time would probably have caused a collision; for instance, if a sail vessel was being towed up stream under a heavy wind it would approach the draw rapidly, and the captain of the draw might not be able to clear it of public travel, and have it open down stream on time, while now, if the captain finds that there is not time to open down stream, he can open up stream, and in every case the draw can be swung away from the approaching vessel. Owing to the settlement of the foundations under the massive stone arches on the west side of the river, the roadway on the abutment at the west end of the draw is about one and one-fourth inches below the roadway on the approach at the east end of the draw;

work is now being done to remedy this, then by a readjustment of the wedges the draw can be reversed end for end; but the main object has already been accomplished, the draw can now swing away from all craft going up or down stream and the liability for a collision has been greatly reduced.

There have passed through the Viaduct draw during the year 3,938 vessels, for which the draw has been opened 3,374 times. The average time required to open and close the draw during the entire year is about four and one-half minutes; occasionally two or three craft pass through at one opening.

There has been used on the draw for the engine, during the past year, forty-six tons of hard coal—average number of pounds per day for three hundred and sixty-five days, is two hundred and fifty-two pounds.

Mr. T. J. W. Quirk, the engineer in charge, and his assistants, are deserving of great credit for the skillful manner in which they have managed the opening and closing of the draw, as its location on the bend of the river requires that it should be handled with great care.

In regard to the new channel west of the center pier of the Viaduct draw, which has been agitated to some extent during the past year, the time may come when the necessities of the business on the river will require it, but for a few years the present arrangement will answer. Whenever it is opened, it will be attended with difficulties and some risk, as the material or deposits of which the river flats are composed are of a treacherous nature, as was demonstrated during the building of the Viaduct, the driving of piles under the foundations or the dumping of large blocks of stone from the cars on to the ground causing it to shake for some distance around.

The water in the Cuyahoga River during the year 1880 was fully as low, if not lower, than it was in 1879, and in order to enable vessels drawing fourteen feet of water to pass as far up as the C. C. C. & I. R. R. slip, dredging had to be done in a great many places. The river has been kept in fair condition, so as to accommodate the large and increasing business that has been

done upon it. And calls are now made for a fourteen-foot channel as far up as the N. Y. P. & O. R. R. draw bridge. New docks are being built on the upper part of the river, and the probabilities now are that a large territory up there will soon be occupied for manufacturing purposes. The completion of the Valley Railway has already given an impetus to business up there, and the opening of the Connotton Railway will still further increase it, and the upper part of the river should be placed in a condition to accommodate the handling of coal, iron ore, limestone, lumber, etc., etc., as soon as business will warrant.

The total length of river channel that has been dredged and kept in order during 1879 and 1880, is as follows :

For fifteen feet of water, the old river bed, 4,480 feet=83-100 miles.

Cuyahoga river from the L. S. & M. S. R. R. draw bridge at the government pier to the C. C. C. & I. coal pocket, 14,000 feet=2,62-100 miles.

From the C. C. C. & I. coal pocket to Upper Central Way bridge twelve feet of water, 2,800 feet=53-100 miles.

From the Upper Central Way bridge to the Standard Oil Works, ten feet of water, 5,000 feet=94-100.

From the Standard Oil Works to the new canal lock, from eight to ten feet of water, for canal boats and tugs, 3,400 feet=64-100.

A total length of river channel that had to be kept passable for boats of 29,600 feet=5,6-10 miles.

On the lower part of the river, in order to maintain a channel for craft of fourteen feet draught, considerable dredging will have to be done during the season of 1881, as the fourteen foot channel is not of the full width of the river, freshets and the action of the propellor wheels causes it to fill up in many places.

On the upper part of the river, from the new canal lock down to the C. C. C. & I. coal pockets, there being but few docks at present, the channel fills up rapidly from abrasion of the

river banks and the debris that washes down from above. This part of the river will have to be kept in proper order for the passage of canal boats and tugs. The probabilities are that it will require twenty-five or thirty thousand dollars to maintain the river channel five and six tenths miles in length in as good condition as it was last year, and a further sum of thirty or thirty-five thousand dollars if the channel between the C. C. C. & I. coal pockets and the N. Y. P. & O. R. R. draw bridge is to be dredged, so that boats drawing fourteen feet of water can go up there. Before any dredging can be done costing over five hundred dollars, a new contract will have to be made, as the contract under which the work was done during 1879-80 has expired.

STREET PAVEMENTS.

The time has come when steps must be taken to repave some of the streets now paved with wood, and the work ought to be commenced during the year 1881 and continued from year to year. It will take from three to five years to replace with new pavement all the streets that now need repaving. If the matter is put off until the streets are almost impassable, and the city should undertake to do a large amount of paving in one or two years, it will be difficult to get material and labor without paying much higher rates; besides it would be bad policy to have too many streets torn up for repaving at any one time, and it would also be for the interest of the city to let contracts for repaving early in the spring, so that work can be commenced in May or June.

SEWERS.

The sewers in the lower or older part of the city, especially in the third ward, are in a bad shape. They were constructed, very many of them, a long time ago and are now too small and too near the surface. They should be repaired with new ones, especially the one in Bank street, before the street is repaved.

There should also be a main intercepting sewer run along in the vicinity of Canal street and the tracks of the C. C. C. & I.

railroad, from Commercial street to Lake Erie, to take up the sewers that now empty into the river in that part of the city. But, before any more main sewers are built, due consideration should be taken as to the probable future growth of the city. If Cleveland should become a very large city, it might become necessary to run an intercepting sewer along the lake shore, as far east as Willson avenue to take up the sewers that now run into the lake in front of the city, provided that the future growth and needs of the city should require it. The intercepting sewer referred to above, on the east side of the river, could be connected by proper appliances with Walworth Run sewer, when built, and then extended by tunneling under Lake and other streets as far east as Willson avenue and there empty into the lake ; or the tunnel could be carried out under the lake the proper distance from the shore, so that the discharge of sewage matter would not be detrimental to property in that vicinity.

STREET SURVEYS AND CITY PROPERTY.

The survey of streets and setting of monuments has been continued the past year by Mr. C. A. Walter and assistants.

The subjoined tables represent the principal part of the work done by the department during the year, but there is, of necessity, a large amount of routine and special work done which cannot be tabulated, as during the year a portion of the force has been engaged in looking up the records of city property, from the organization of the city up to the present time. This is, of necessity, a laborious task and embraces from three to four hundred different parcels of land which have been bought, sold or exchanged by the city since its organization. This list is not sufficiently complete to be embraced in a table, but when finished will be an invaluable record.

I am also having all property now owned by the city and occupied by schools, engine and station houses, armory buildings, parks and public grounds, platted into a book, which will

represent by different colors each separate purchase or portion of any lot, with an abstract of title, amount of consideration, date, volume and page of record. This work will be continued and, it is hoped, completed during the coming year.

A large amount of extra work is also performed in making up the semi-monthly estimates for cleaning of streets, markets and catch-basins, and in the enumeration and location of street lamps and in looking up and reporting upon all petitions and remonstrances, etc., that does not appear in the tables.

Respectfully submitted,

B. F. MORSE,

City Civil Engineer.

INVOICE OF FURNITURE AND INSTRUMENTS IN
CITY CIVIL ENGINEER'S OFFICE.

Office desks	8
“ chairs, rotary	8
“ chairs, common	19
“ Tables	4
“ Stands	2
“ Lounge	1
“ Cases and tables	11
“ Open desk and case	1
“ Stands of drawers	4
“ Drawing tables	4
Engineer's transits	4
“ Levels	5
“ Level rods	3
“ and Surveyor's chains	6
Sounding poles	1
Transit poles	6
Copying press	1

TABLE NO. 1.
STREETS PAVED, CURBED OR GRADED.

Name of Street.	From	To	How im- proved.	Length.	Cost.	Contractor.
Alley	Douse st.	Martin st.	Graded.	225	\$ 25 00	S. Beckwith.
Barkwell ave.	Broadway	Petrie Rd.	Graded.	1404	100 00	Wm. Barkwill.
Bolton ave.	Cedar ave.	Southerly	Curbed.	1750	315 00	C. E. Render.
Calvert, (incomplete)	Cedar ave.	Garden st.	Graded.	830		
Curtiss ave.	Willson ave.	Easterly	Grad., Curb.	1114	526 20	Brannan Bros. C. E. Reader.
Douse	Broadway	Northerly	Graded.	1034	165 00	S. Beckwith.
Elizabeth	Willson ave.	Kirtland st.	"	980	435 00	Wm. Morgan.
Emerald alley	Mulson st.	Dodge st.	"	1491	100 00	D. McLane.
Engel avenue	Broadway	Todd st.	"	1422 *	227 52	A. R. Jewett.
Franklin Court	Franklin st.	Southerly	Curbed.	473	140 00	Property owners.
Harlem	Willson ave.	Kirtland st.	Graded.	767	365 00	Wm. Morgan.
Hillman	Broadway	Todd st.	"	1130	113 00	A. R. Jewett.
Lec	Doan st.	Lot line.	"	1620	255 00	Property owners.
Lena ave. (incomplete) ..	Giddings ave.	E. Madison ave.	"	1566		
Lorain (incomplete)	Waverly ave.	Chestnut Ridge	G, C. & Cind.	2830	2,639 41	P. O'Sullivan.
Payne ave	N. Perry st.	Huntington st.	Graded.	563	100 00	J. Mahon, Jr.
Orville	Doan st.	Lot Line	Graded.	1650	300 00	Property owners.
Superior	S. Monumental Park	W. S. Mon. Park	Paved.	485	6,563 20	Albion Med. S. Co
Total feet				21,432		
Miles				4.06	\$12,969.46	

TABLE NO. 2.
SEWERS BUILT IN 1880.

Name of Street.	From	To	Length.	Size.	Material.	Price.	Contractor.
Aust	Pearl st.	Alley	370	12 in. Ctr. Pipe.	"	\$ 195 00	S. Wood & Sons.
Arlington	Cedar ave.	Southerly ..	780	"	"	324 00	Geo. Dennon.
Carroll	Pearl st.	York st.	470	"	"	474 83	Daykin Bros.
Cedar ave.	Willson ave.	Second st. ..	660	15 "	"	528 00	S. Wood & Sons.
Cedar ave.	Willson ave.	Second st. ..	300	12 "	"	165 00	"
Duane	Detroit st.	Clinton st. ..	579	"	"	294 00	"
Dunham ave.	Hough ave.	Euclid ave.	1315	27x23	Brick.	1,977 22	J. Nau.
Euclid ave.	Kennard st.	Easterly	224	12 in Ctr. Pipe.	"	152 40	R. J. Clements.
Fifth	Willson ave.	Second st.	940	15 "	"	752 00	S. Wood & Sons.
Fifth	Willson ave.	Second st.	255	12 "	"	140 25	"
Fourth	Willson ave.	Second st.	1000	15 "	"	800 00	"
Irving	Woodland ave.	Southerly	750	12 "	"	400 00	"
Kentucky	Franklin st.	Reservoir st. ..	377	9 "	"	164 50	Daykin Bros.
Mason	Case ave.	McHenry st.	900	12 "	"	803 00	S. Wood & Sons.
Osborn	Garden st.	Southerly	845	12 "	"	.....	Geo. Dennon.
Outhwaite	Willson ave.	Westerly	708	9 "	"	356 87	Clements Bros.

TABLE NO. 2—Continued.

Name of Street.	From	To	Length.	Size.	Material.	Price.	Contractor.
Second.....	Garden st.	Cedar ave.....	500	12 in. Cir.	Pipe.	\$275 00	S. Wood & Sons.
Second.....	Garden st.	Cedar ave.....	275	9 "	"	123 75	S. Wood & Sons.
State.....	Clinton st.....	Franklin st.....	330	9 "	"	181 00	Clements Bros.
Superior.....	Water st....	Bank st	550	12 "	"	425 00	S. Wood & Sons.
Taylor.....	Franklin st....	Southerly.....	615	9 "	"	267 60	Daykin Bros.
Williams.....	Cedar ave.....	Southerly.....	700	12 "	"	500 00	Clements Bros.
Total Length.....			13,434			\$9,288 82	
Total Miles			2.54				

TABLE NO. 3.

SUMMARY OF WORK DONE BY ENGINEER'S DEPARTMENT DURING
THE YEAR 1880, EMBRACING DISBURSEMENTS.

Name of Improvement.	Cost.	Contractor.
Armory.....	\$13,519 95	McMahon & Skeel Bros
Broadway culvert, incomplete... ..	3,218 08	L. F. Beers.
Concrete pavement repairs... ..	2,794 89	Columbus paving Co.
Cuyahoga river dredging.....	22,357 05	Sims and Smith.
Center st. bridge protection piling.....	603 75	James Gloyd.
Grading, curbing and paving.....	12,309 33	
Jefferson st. bridge protection piling.....	433 15	James Gloyd.
Lena ave. culvert.....	401 00	S. Wood & Sons.
Market house, 18th ward.....	462 25	H. O. Adams.
Main st. bridge protection piling	506 00	P. Smith.
Sewers	9,288 92	
Sprinkling.....	1,163 55	O'Neil—Costello, Thoman—Disberg.
Willow st. bridge protection piling.....	296 49	P. Smith.
Total	\$67,415 01	

TABLE NO. 4.
SURVEYS MADE DURING 1880.

Name.	From.	To.	Length in Feet.
Artell st.....	Broadway.....	Aetna st.....	2235
Alley E. of Professor st.....	Literary st.....	Pelton st.....	721
Alley W. of York st.....	Jay st.....	Fulton st.....	280
Alley in Block W. W.....	Buffalo Co's. Allot.....	.....	.....
Clark ave. extension.....	Jennings ave.....	Petrie st.....	7508
Central Way.....	Scranton ave.....	L. Central Way Bridge.....	.....
Canal st.....	Ontario st.....	E. to 2d angle.....	701
Center st.....	S. Water st.....	Columbus st.....	279
Cuyahoga river.....	S. Water st.....	Each side of.....	600
Cemetery lot, 18th Ward, 8½ acres.....	.....	.....	.....
Dodge st.....	Oregon.....	St. Clair st.....	381
Emerald alley.....	Mulson.....	Dodge st.....	1519
Farnham alley.....	Monumental Park.....	Prospect st.....	521
Infirmary farm, 45 acres.....	.....	.....	.....
High bridge route.....	Forest st.....	Pittsburg.....	3511
Jay st.....	Jersey st.....	York st.....	538

TABLE NO. 4—Continued.

Name.	From.	To	Length in Feet.
Kinman st.....	Willson ave.....	S. E. to 1st angle.....	1542
Lot No. 9 Block C.....	Buffalo Co's allotment.....		
Lot No 219 Block 1.....			
Literary st.....	University st.....	Professor st.....	440
Market grounds W. S.....	Pearl st.....	McLane st.....	
O'Connor st.....	Euclid ave.....	N. to 2d angle.....	745
Rail Road, C. & P.....	18th ward cemetery..	Each way.....	1000
South Water st.....	Superior st.....	Center st.....	908
Seymour ave.....	Columbus st.....	Rhodes ave.....	
School lot, Alabama st.....			
Willson ave.....	Euclid ave.....	Windsor st.....	671
West st. Extension.....	S. Water st.....	Champlain st.....	756

TABLE NO. 5.
STREETS ON WHICH LEVELS HAVE BEEN RUN OR CROSS SECTIONS TAKEN.

Name of Street	From.	To.	Width.	Length.	Work Done.
Alley.....	Douse street.....	Martin street.....	20	225	C. S. Levels.
Alley	Church street	Wall street.....	14	304	"
Bliss street.....	Petrie Road.....	Jennings avenue.....	50-63	1234	"
California street.....	Muirson street.....	Alley.....	38	446	"
Case avenue.....	St. Clair street.....	L. S. & M. S. R. R.....	90	1443	"
Center street extension.....	West street.....	Canal street.....	60	756	"
Curtiss avenue.....	Willson avenue.....	Easterly.....	68	1114	C. S. Levels.
Croton street	Humboldt street.....	Jackson street.....	60	1668	"
Douse street	Broadway	Northerly	45	1024	C. S.
Emerald alley.....	Muirson street.....	Dodge street.....	18	2282	C. S.
Fowler street. . .	Broadway. . .	N. Y. P. & O. R. R.....	50	1165	C. S. Levels.
Girard street.....	Columbus street.....	Carter street.....	50-60	772	"
Handy street.....	Payne avenue.....	Southerly.....	50	877	C. S. Levels.
Hayward street.....	Sibley street	Prospect street	50	375	"
Herman street extension.....	Oakland street.....	McCart street.....	68	1840	"
Hill street extension.....	Cross street.....	Stanley street.....	50-82½	3048	"

TABLE NO. 5—Continued.

Name of Street.	From.	To.	Width.	Length.	Work Done.
Humboldt street.....	Proposed street	Croton street.....	60	612	Levels.
Jefferson street.....	Alley.....	Merchant avenue.....	66	1360	"
King street	Cass avenue.....	Wasson street	66	660	"
Lee street.....	Doan street.....	Crawford Road.....	60	2124	C. S.
Lena avenue.....	East Madison avenue	Giddings avenue.....	60	1696	Levels.
Lorain street.....	Bradford street.....	Scranton avenue.....	50	871	"
Marquette street.....	Willson avenue.....	Lake Erie.....	100	2400	"
McBride street.....	Dolloff street.....	N. Y. P. & O. R. R.....	33-40	1578	"
Mervin street.....	James street.....	West street.....	66	350	"
Oakland street.....	Cass street.....	Lake Erie.....	66	1240	"
Orville street.....	Doan street.....	Easterly.....	60	1650	C. S.
Osborn street.....	Garden street.....	Scovill avenue.....	60	1272	C. S.
Perkins avenue	Cass avenue.....	C. & P. R. R.....	70	974	C. S.
Pittsburg street extension...	Trumbull street	Broadway	60	4280	Levels
Proposed street.....	Carter street.....	Columbus street.....	50	857	"
Proposed street.....	Carter street.....	Center street.....	50	812	"
Sonoca street.....	Cuyahoga River.....	Canal street.....	..	212	"

TABLE NO. 5—Continued.

Name of street.	From	To	Width.	Length.	Work Done.
Sixth avenue.....	Wilson avenue.....	Norwood street.....	60	1600	Levels.
Starkweather avenue.....	Pelton avenue.....	Merchant avenue.....	100	419	"
Stanley street.....	Hill street extension.....	Broadway.....	40	365	"
Superior street.....	East Side of Monumental Park..	W. Side Monumental Park	132	485	C. S.
Streator avenue.....	Euclid avenue.....	Cedar avenue.....	60	1435	Levels.
Wasson street.....	St. Clair street ..	L. S. & M. S. R. R....	99	1417	"
Total feet.....				54,844	
Total miles.....				10 $\frac{3}{8}$	

TABLE NO. 6.
STREETS ON WHICH SIDEWALK GRADES HAVE BEEN GIVEN.

Name of Street.	Length of Feet.
Bolton avenue.....	1750
Curtiss avenue.....	2228
Doan street.....	6080
Euclid avenue.....	554
Franklin court.....	900
Hamilton street.....	300
Lake street.....	353
Lorain street.....	607
Muirson street.....	128
St. Clair street.....	350
Superior street.....	5846
Vega avenue.....	4464
West Madison avenue.....	780
Willson avenue.....	600
Total Feet.....	25060
Total Miles.....	4.75

TABLE NO. 7.
ASSESSMENT MAPS MADE IN 1880 FOR THE USE OF CITY AUDITOR'S DEPARTMENT.

Street.	From.	To.
Broadway	Eagle st.....	Liberal street.
Broadway	Union st.....	Miles street.
Case ave.....	Garden st.....	Euclid avenue.
Clark ave.....	Scranton ave.....	Chestnut Ridge street.
Detroit	Kentucky st.....	East to top of hill.
Erie.....	Woodland ave.....	Lake Erie.
Euclid ave	Perry st.....	Willson avenue.
Iona and Isabella sts	Clark ave	Storer avenue.
Kinsman.....	Willson ave.....	City Limits.
Pearl.....	Detroit st	Monroe street
Prospect.....	Perry st	Case avenue.
Superior.....	Monumental Park.....	Perry street.
Willson ave.....	Julia st.....	Sawtell avenue.
Woodland ave.....	Eagle st.....	Willson avenue.

Territory from Woodland Hills avenue to City limits east, and from Quincy street to Woodland avenue, giving lines and number of acres for City taxes (County Auditor).

TABLE NO. 8.
STREET NUMBERING MAPS MADE IN 1890.

Street.	From.	To.	Length.
Bolton ave.....	Euclid ave.....	Hough ave.....	200
Dickerman st.....	Kinsman st.....	Vernon st....	1400
Mulberry st.....	Lake Erie.....	Detroit st.....	200
Pearl st.....	Lake Erie.....	City limits...	1300
Spring st.....	Front St.....	Superior st.....	2100
Total Feet....			21100
Total Miles....			4

TABLE NO. 9.
STREET GRADES ESTABLISHED IN 1890.

Street.	From.	To.	Length in Feet.	When Estab'd
Ash	Clark ave	Train st.	767	April 19
Alley 1st S. of Detroit	Wall st.	Hanover st.	809	Nov. 15
Cornell	Jones ave	Fullerton st.	2376	Feb. 16
Calvert	Cedar ave	Garden st.	889	Oct. 25
Emerald alley	Muirson st.	Dodge st.	1491	Oct. 11
Fleet	Brecksville road	City limits	8282	April 12
Harvard	Broadway	Woodland Hills	1690	Aug. 9
Marquette	Willson ave	L. S. & M. S. R. R.	1798	Oct. 25
McBride	Dollhoff st	N. Y. P. & O. R. R.	1578	Oct. 25
Platt	Car st.	E. Madison ave.	883	Oct. 25
Seymour ave.	Soranton ave.	Rhodes ave	2070	June 14
Sixth ave	Willson ave.	Norwood st.	1600	Sept. 5
Train	Junction st	Fountain st	645	April 19
Total Feet			20296	
Total Miles			3 7/8	

TABLE NO. 10.
STREETS ON WHICH GRADES HAVE BEEN FIXED BUT NOT ESTABLISHED BY ORDINANCE.

Name of Street.	From.	To.	Length.
Bliss st, extension.....	Jewett's line	Cuyahoga river.....	1502
Case avenue.....	St. Clair st.....	L. S. & M. S. R. R.....	1443
Clark avenue.....	Jennings ave.....	Cuyahoga river.....	6025
Douse.....	Broadway.....	Northerly.....	1034
Fowler.....	Broadway.....	N. Y. P. & O. R. R.....	1165
Herrnan.....	Oakland st.....	City limits.....	1600
Hill st, extension.....	Cross st.....	Stanley st.....	3008
King.....	Case ave.....	R. R. Tracks.....	300
Lee.....	Doan st.....	Lot line.....	1650
Lena ave.....	E. Madison ave.....	Giddings ave.....	1508
Merwin.....	James st.....	West st.....	350
Orville.....	Doan st.....	Lot line.....	1050

TABLE NO. 10—Continued.

Name of Street.	From.	To.	Length.
Pittsburg extension..	Jackson st..	Trumbull st.....	3311
Pollock.....	Walton ave ..	Clark ave... ..	380
Streater ave.....	Euclid ave.....	Cedar ave.....	1485
Superior... ..	Case ave	Willson ave.....	3062
Wasson.....	St Clair st.....	L. S. & M. S. R. R.	1417
Total Feet... ..			30198
Total Miles.....			5.73

TABLE NO. II.

GAS AND FLUID STREET LAMPS IN USE JANUARY 1, 1881, THAT ARE
CHARGED TO THE CITY OF CLEVELAND.

EAST OF CUYAHOGA RIVER.

Ward.	Gas.	Fluid.
First	242	38
Second.....	162	0
Third	128	0
Fourth.....	230	7
Fifth.....	279	23
Sixth.....	594	0
Seventh.....	143	258
Fourteenth	121	74
Fifteenth	106	121
Sixteenth.....	184	39
Seventeenth.....	198	43
Eighteenth.....	162	0
Total east of River.....	2,544	603

WEST OF CUYAHOGA RIVER.

Ward.	Gas.	Fluid.
Eighth.....	176	46
Ninth	199	15
Tenth.....	241	69
Eleventh	156	105
Twelfth.....	124	177
Thirteenth.....	162	138
Total west of river.....	1,058	550
Total in city.....	3,602	1,153

TABLE NO. 12.
ESTIMATED COST OF REPAVING THE FOLLOWING WOOD PAVED STREETS WITH MEDINA, N. Y. SANDSTONE.

Street.	From.	To.	Amount for Amount for Property. City.
Bank	Superior st	Top of hill.....	\$ 17,445 56 \$ 6,000 03
Broadway	Ohio st.....	Cross st	9,025 77 5,351 81
Broadway	Cross st.....	Perry st.....	15,167 11 822 84
Broadway	Perry st.....	Liberal st.....	4,807 03 871 88
Detroit	Top of hill.....	Kentucky st.....	14,824 58 3,922 04
Erie.....	{ Lake st.....	Euclid ave.....	} 17,631 75 5,468 88
	{ Ohio st.....	Woodland ave.....	
Erie.....	Euclid ave.....	Huron st.....	2,898 96 2,631 42
Erie.....	Huron st.....	Ohio st.....	6,941 82 1,655 06
Euclid ave.....	S. Perry st.....	Case ave.....	40,315 61 3,293 59
Euclid ave.....	Case ave.....	Willson ave.....	10,915 17 3,378 03
Monumental Park	E. and N. side.....	W. and S. side.....	11,389 49
Mon. Park, S. and W. sides.....	Euclid ave.....	Superior st	3,710 24 5,572 04
Prospect.....	Perry st.....	Sterling ave.....	13,126 12

TABLE NO. 12—Continued.

Street.	From.	To.	Amount for Property.	Amount for City.
Prospect.....	Sterling ave.....	Case ave.....	\$ 12,938 14	\$ 2,319 71
Pearl.....	Detroit st.....	Monroe st.....	28,090 47	9,235 12
Superior. . . .	Park st.....	Erle st.....	16,302 18	4,282 47
Superior.....	Erle st.....	Perry st.....	9,571 85	1,076 96
Woodland ave.....	Ohio st.....	Willson ave.....	76,468 93	22,378 57
Total Amount....			\$297,744 29	\$80,576 14

TABLE NO. 13.
MISCELLANEOUS IMPROVEMENTS PROPOSED, FOR WHICH ESTI-
MATES HAVE BEEN MADE.

Proposed Improvement.	Estimated Cost.
Abbey street extension and bridge.....	\$ 47,525 00
Broadway high bridge, Jackson to Trumbull st.....	158,895 71
Burnham street sewer, Scovill to Woodland ave	1,414 20
Center street extension, south Water to Canal st	115,000 00
Euclid ave., re-paving, Willson to Fairmount st.....	65,415 63
Lorain street extension and bridge, Bradford to Girard st	33,830 00
Lorain street extension, Bradford to Scranton avenue	37,180 00
Petrie road grading, Clay to Independence street.....	3,000 00
Proposed st. and bridge over Cuyahoga river, Carter & Center sts.	34,450 00
Oakland st. at crossing of Toledo division L. S. & M. S. R. R.	19,584 00
Vine st. sewer, Scovill to Woodland avenue....	1,457 53
Total.....	\$617,702 07

ANNUAL REPORT
OF THE
BOARD OF IMPROVEMENTS

OF THE
CITY OF CLEVELAND,

For the Year Ending December 31, 1880

REPORT OF THE BOARD OF IMPROVEMENTS.

To the Honorable City Council:

GENTLEMEN: The Board of Improvements herewith submits its report for the year ending December 31, 1880, accompanied by the reports of the City Civil Engineer and Street Commissioner. The year has been a busy one for the Board. Although no improvements involving large expenditures of money have been under way, and the labors of the Board cannot therefore be measured by the amount of money expended, its time and attention have been more than usually employed in the consideration of questions, the importance of which to the city, though recognized as great, cannot be told in dollars and cents. The total expenditure for all work done and services performed under the supervision of the Board, including the Engineer's and Street Commissioner's departments, was \$178,678 71.

There have been 111 meetings of the Board during the year, of which 100 were regular and 11 special meetings.

The subject of the repavement of streets is one which early in the year received considerable attention from the Board, and its conclusions thereon were embodied in ordinances and sent to your honorable body for action, in the hope that such would be taken in time to permit the performance of much necessary work in that direction during the year. No definite action was had, however, so that the streets whose repavement

was then contemplated are now in a very much worse condition than at that time, and ill comport with the character and dignity of our city.

The questions as to the kind of material to be used, and who should pay for the new pavement, seemed to be ones upon which such a diversity of opinions prevailed as to cause this great delay in the passage of the ordinances recommended.

It was the judgment of the Board one year ago that stone is the best material for such use and should be employed in the pavement of all streets, except, perhaps, where there is little or no heavy teaming. It is still of the same opinion. In the report of Engineer Morse, which accompanies this, is a table showing the estimated cost of repaving ten of the wood paved streets with Medina, N. Y., sandstone. These are the ones now in the worst condition, and which should receive immediate attention. The total cost is estimated at \$388,320 43, and, if paid in the usual manner, the abutting property will be taxed for all but the cost of paving intersections and one-fiftieth of the entire cost, that is, the abutting property will be charged with \$297,744 29 and the city with \$90,576 14.

There seems, however, a growing impression that the city at large should pay one-half of the entire cost of repaving, less any amount that may be charged to street railroad companies that occupy portions of the street. To conform to this view substitute ordinances have been submitted for several of the ordinances previously recommended, three of which have been passed.

Advertisements for proposals for furnishing material and doing the work necessary to pave and improve Case and Woodland avenues and Bank and Pearl streets have already been ordered, and work will begin on them as soon as contracts can be awarded.

It is probable that the work of this department will be very greatly augmented the coming year, by reason of improvements already under way and others likely to be undertaken

on account of the increased business activity and the general demand for improvements of various kinds.

The expenditures authorized by the Board, not included in the reports of the Engineer and Street Commissioner, were as follows :

BRIDGES.

VIADUCT—

Tenders' pay roll.....	\$ 6,086 84
Repairs ".....	721 51
Supplies for repairs.....	916 72
Ordinary supplies.....	521 44
	<hr/> \$ 8,246 51

CENTER STREET—

Tenders' pay roll.....	\$ 2,258 02
Repairs ".....	226 75
Supplies for repairs.....	723 34
Ordinary supplies.....	66 31
	<hr/> \$ 3,274 42

COLUMBUS STREET—

Tenders' pay roll.....	\$ 2,177 25
Repairs ".....	152 74
Supplies for repairs.....	130 94
Ordinary supplies.....	78 92
	<hr/> \$ 2,539 85

JEFFERSON STREET—

Tenders' pay roll.....	\$ 640 50
Repairs ".....	182 25
Supplies for repairs.....	525 24
Ordinary supplies.....	3 74
	<hr/> \$ 1,351 73

LOWER CENTRAL WAY—

Tenders' pay roll.....	\$ 2,084 25
Repairs ".....	70 50
Supplies for repairs.....	40 56
Ordinary supplies.....	47 14
	<hr/> \$ 2,242 45

SENECA STREET—

Tenders' pay roll.....	\$ 2,089 50
Repairs ".....	826 00
Supplies for repairs.....	90 90
Ordinary supplies.....	90 20
	<hr/> \$ 2,576 60

MAIN STREET—

Tenders' pay roll	\$ 2,347 00
Repairs "	354 00
Supplies for repairs	851 13
Ordinary supplies	68 23
	<hr/> \$ 3,621 05

WILLOW STREET—

Tenders' pay rolls	\$ 2,290 50
Repairs "	128 87
Supplies for repairs	360 00
Ordinary supplies	63 71
	<hr/> \$ 2,842 08

SWISS STREET—

Tenders' pay roll	\$ 366 00
Repairs "	20 75
Ordinary supplies	32 38
	<hr/> \$ 419 13

UPPER CENTRAL WAY—

Tenders' pay roll	\$ 1,500 00
Repairs "	154 50
Supplies for repairs	223 27
Ordinary supplies	47 53
	<hr/> \$ 1,925 30

WALWORTH RUN—

Tenders' pay roll	\$ 901 50
Repairs "	53 75
Supplies for repairs	48 17
Ordinary supplies	31 88
	<hr/> \$ 1,035 30

COMMERCIAL STREET—

Repairs pay roll	\$ 101 62
Supplies for repairs	183 50
	<hr/> \$ 285 12

FACTORY STREET—

Repairs pay roll	\$ 290 50
Supplies for repairs	60 61
	<hr/> \$ 351 11

TURNERY AVENUE—

Repairs pay roll	\$ 17 00
	<hr/> \$ 17 00

HOWARD STREET—

Repairs pay roll	\$ 53 00
Supplies "	51 06
	<hr/> \$ 105 16

MERWIN STREET—

Repairs pay roll	\$ 47 00	
Supplies for repairs	15 72	
	<hr/>	\$ 62 72

SOUTH WATER STREET—

Repairs pay roll	\$ 84 99	
Supplies for repairs	29 60	
	<hr/>	\$ 114 59

WINSLOW STREET—

Repairs pay roll	\$ 89 00	
Supplies for repairs	223 16	
	<hr/>	\$ 312 16

WEIGH LOCK—

Repairs pay roll	\$ 5 00	
Supplies for repairs	4 12	
	<hr/>	\$ 9 12

GENERAL BRIDGE ACCOUNT—

	\$ 523 23	
	<hr/>	\$ 523 23

Grand Total	\$31,854 63
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SUPERINTENDENTS OF IMPROVEMENTS.

Construction of Armory	\$ 270 00	
Paving and grading	332 25	
Culvert	134 85	
Sewers	211 75	
	<hr/>	\$ 948 85

OTHER EMPLOYEES.

Mayor's Clerk and Clerk of Board	\$ 2,000 00	
Inspector of sidewalk	\$ 649 25	
1st Assistant Clerk	635 00	
2d Assistant Clerk	515 00	
Elevator Operator	600 00	
Engineers of heating apparatus	1,165 20	
Fireman of heating apparatus	274 50	
	<hr/>	\$ 5,839 95

CITY HALL.

Repairs on heating apparatus and elevator	\$ 209 77	
Repairs on offices, including painting	102 80	
Repairs on building, including painting	343 87	
Repairs on store rooms, including painting	71 50	
Supplies	59 94	
	<hr/>	\$ 787 88

MAYOR'S AND BOARD OF IMPROVEMENTS' OFFICE.

Supplies.....	\$	77	31
Stationery.....		87	42
	—————	\$	164 73

POUNDS.

FIFTH WARD -

Pound keeper's pay.....	\$	755	00
Coal.....		2	59
	—————	\$	757 59

SIXTH WARD—

Pound keeper's pay.....	\$	715	00
Rent of pound.....		70	92
	—————	\$	785 92

THIRTEENTH WARD—

Pound keeper's pay.....	\$	780	00
Rent of pound.....		35	00
	—————	\$	795 00

FOURTEENTH WARD—

Pound keeper's pay.....	\$	755	00
Rent of pound.....		15	00
	—————	\$	770 00

SEVENTEENTH WARD—

Pound keeper's pay.....	\$	757	50
Rent of pound.....		12	00
Supplies.....		60	
	—————	\$	770 10

EIGHTEENTH WARD—

Pound keeper's pay.....	\$	742	50
Rent of pound.....		25	00
Supplies.....		50	
	—————	\$	768 00

SWISS STREET—

Pound keeper's pay.....	\$	770	00
	—————	\$	770 00
Total.....			\$ 5,416 61

SPRINKLING.

Summit street.....	\$	122	25
	—————	\$	122 25

CATCH BASINS AND SEWERS.

Alabama street, corner Hamilton, catch basin.....	\$ 55 00
Columbus street sewer repairs.....	111 96
Front street sewer repairs.....	6 00
Old passenger depot sewer under same	24 36
Willson avenue at lake, outlet of sewer.....	190 14
Flushing hole covers.....	5 00
	—————\$ 382 46

PAVEMENT REPAIRS.

Bond street.....	\$ 294 27
Euclid avenue.....	1,306 72
Lake street.....	895 00
Ontario street	200 00
Ontario street, intersection Superior	30 00
Pearl street to top of hill.....	31 90
Prospect street.....	150 00
Seneca street	140 00
Sheriff street	48 00
	—————\$ 2,684 89

CUYAHOGA RIVER.

Sounding river.....	\$ 12 50
Towing snags.....	45 09
	—————\$ 57 59

ARMORY ACCOUNT.

Construction account	\$ 1,212 24
Architects.....	225 00
Supplies for repairs	78 93
Stoves.....	42 00
	—————\$ 1,558 17

MARKET ACCOUNT.

Repairing, etc., of hay scales.....	\$ 17 54
Work on 18th ward market.....	18 08
Supplies and coal.....	9 18
	—————\$ 44 84

MISCELLANEOUS.

Repairs on Superior st. dock	\$ 63 02
Electric lamp post on Superior st.....	51 25
“ “ “ “	13 50
Street signs.....	16 80
Brooklyn st. R. R. suit	4 00
Repairing clock.....	40 00
Port Warden Police badge	2 00
Printing and advertising.....	759 65
Gas fund, lumber, etc.	53 36
Road roller repair.....	36 93
	—————\$ 1,040 52

SUMMARY.

Bridges, total cost.....	\$31,854 63
Cost of superintendence work	948 85
Cost of other employees	5,838 95
City Hall expenditures	787 88
Mayor's office and Board of Improvements office	164 73
Cattle pounds	5,416 61
Cost of sprinkling	122 25
Catch basins and sewers	382 46
Pavement repairs	2,684 80
Cuyahoga river account	57 50
Armory account	1,568 17
Market account	44 84
Miscellaneous	1,040 51

Grand Total \$50 912 36

By order of the Board of Improvements,

W. E. SHERWOOD,

Clerk.

ANNUAL REPORT
OF THE
STREET COMMISSIONER
OF THE
CITY OF CLEVELAND.
FOR THE YEAR ENDING DECEMBER 31, 1890.

REPORT OF THE
STREET COMMISSIONER.

To the Honorable Board of Improvements :

GENTLEMEN :—I have the honor to submit herewith the annual report of the Street Department for the year ending December 31, 1880.

The tables accompanying this report contain detailed statements of all work done under charge of the department.

The present contracts for cleaning paved streets are at the following rates per mile for each mile cleaned :

P. O'Sullivan,	\$19 50
D. McLane	19 50
S. Beckwith,	23 00
L. Brennan,	19 00

Each contractor has a different portion of the city to look after.

The repairs to stone and wood pavements have all been done by men employed by the day's work. The stone pavements are generally in a fair condition. The wood pavements, on the contrary, are in a terribly dilapidated state. The most of them have passed the stage where repairs can be made. Nothing but entirely new pavements can place the streets now paved with this material in good condition.

The contracts for cleaning, rounding up and surfacing unpaved streets are at the following rates per mile, \$17 00, \$19 50, \$21 00 and \$22 00.

For furnishing earth filling, 17c., 20c. and 24c ; gravel, 30 and 40c.; black cinder 27, 30 and 40 cts., and furnace cinder, 30, 35 and 50 cts. per cubic yard.

All other repairs were done by men employed by the day.

The catch basins of the city have all been cleaned by contract. The present contract price is \$1,975 00.

The sewers have been cleaned and flushed by men employed by the day. A statement in detail of the work is shown in tables two and three.

Cross walks have been cleaned by contract at prices ranging from 5 to 10 cts. each, where cleaned at other times than when the streets are cleaned.

The cleaning of paved streets, catch basins and the furnishing of cinder, gravel and earth filling by contract, works tolerably well and, in my opinion, should be continued. It requires however, the constant presence of an inspector with each contractor in order to insure thoroughness, and it is at times somewhat difficult to get the work done promptly when ordered, as the contractors seek to do the work only when the weather is such that they can do it the most cheaply and conveniently for themselves.

The cleaning, surfacing and rounding up of unpaved streets should not be let by contract. No two streets are alike in the amount or character of the work to be done, and no rule can be made which will apply to all parts of even one unpaved street. The consequence is that the work is very poorly done and there is continual contention between the department officers and the contractors as to how the work should be done.

Over 400 excavation permits have come to this department from the Clerk of the Board of Improvements during the year. All of these excavations have been looked after and repaired by men employed by the day, and the cost charged up to the parties taking out the permit. This class of work has

increased largely during the year and has required supervision and the employment of a large force of men and teams constantly.

The McAdam, or broken stone pavement on Cedar avenue, between Willson avenue and Lincoln avenue, has been repaired and the whole street to Fairmount is now in good condition. Stone gutters have been put in on Forest street hill, Washington street hill and a number of other smaller places where the wooden box gutters were worn out.

The expenses of the department for 1880, as given by the Auditor, were \$62,496 74. This is for the fiscal year and includes bills contracted in 1879, \$5,087 67. Broadway culvert 2,896 81, and repairs to concrete pavement 1,064 90, amounting in all to 9,049 38, but does not include the cost of work done in December 1880, and ten per cent. of the cost of cleaning streets by contractors, retained under the terms of contract, in all amounting to \$1,739 08. Deducting the difference between the two sums last above named and adding to that difference the amount paid into the fund for repairs and work done for other departments, \$4,258 22, gives us a total of \$11,568 52. Deducting this last named amount from the amount given by the Auditor and we have as the ordinary expenses for the calendar year, \$50,928 22.

For this amount 425 miles of streets, 80 miles of sewers and 1800 catch basins have been kept clean and in ordinary repair.

That a larger amount should be expended upon the streets and sewers in this city of 175,000 people requires no argument to prove.

In conclusion, permit me to say that Assistant Commissioner W. J. Quayle, Superintendent of Repairs D. A. Udall, Superintendent of Streets D. Kimball and J. E. Jones, Inspectors C. S. Ruggles, Wm. Lamben and H. Holsing are entitled to a large share, of credit for the faithful performance of their duties.

Respectfully submitted,

FRANK RIELEY.

Street Commissioner.

TABLE No 1.

STATEMENT OF EXPENDITURES FOR WORK UNDER CHARGE OF
STREET COMMISSIONERS DURING 1880.No. of Table
showing de-
tailed acc't.

PAVED STREETS.

TABLE No 2.	Cleaning under contract	\$ 6,972 96	
	Pay roll, labor	6,353 36	
			\$13,326 32

UNPAVED STREETS.

TABLE No. 3.	Cleaning, surfacing and repairing under con- tract.....	\$13,598 21	
	Pay roll, labor.....	5,587 07	
			\$19,185 28

CATCH BASINS.

TABLE No. 4.	Cleaning under contract.....	\$ 1,850 66	
	Repairs	1,043 51	
			\$ 2,903 17

SEWERS.

TABLE No. 5.	Flushing	\$ 888 57	
	Repairs.....	3,008 16	
			\$ 3,896 73

BRIDGES.

TABLE No. 6	Repairs, sheathing, labor.....	\$ 555 08	
			\$ 555 08

CROSSWALKS.

TABLE No. 7.	Cost of new and repair of old	\$ 656 68	
	Cleaning	1,230 51	
			\$ 1,887 19

LUMBER.

TABLE No. 8.	Sheathing on bridges	\$ 807 51	
	Paving blocks	1,157 10	
	Box gutters, drains, crosswalks, bridges, etc..	2,107 60	
			\$ 4,072 21

TABLE No. 9. Miscellaneous bills.....	\$ 1,951 04
	<u> </u> \$ 1,951 04

TABLE No. 10. Salaries of officers	\$ 8,964 25
	<u> </u> \$ 8,964 25

Grand Total.....	<u> </u> \$50,731 27
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Ontario	Mon. Park and Market G rds.	1508	457.25	16	130.38	12.75	43.30	13.25
Pearl	Mulberry and Detroit.	1540		12				
Perry	Detroit and Columbus.	4357	1105.75	15	375.83	9.79	242.10	27.06
Perry	Euclid and Broadway.	4213	1062.50	4	54.99	8.12	42.75	20.25
Prospect	Ontario and Erie.	1719		12				
Prospect	Erie and Case.	7719		10				
Public Square	Case and Willson.	1520	1025.71	5	330.72	3.62	120.75	34.62
Public Square	E. N. & W. sides to Superior.	1388		12				
Public Square	S. and W. ends and Superior							
Public Square	and Ontario through Square.							
Rockwell	Seneca and Mon. Park.	881	377.50	12	119.28	31.96	37.31	3.75
Scranton	Central Way and Paraffine.	215	17.32	8	5.76	3.63		2.00
Seneca	Summit and Superior.	5303	318.18	6	101.82	13.02	50.66	30.44
Seneca	Superior and Seneca Bridge.	1120		15				
Sheriff	Euclid and Prospect.	1740	430.75	15	137.86	1.56	62.20	8.20
S. Water	Superior and Center.	449	44.38	10	14.23	5.00	7.37	4.50
Sterling	Euclid and Prospect.	890	42.45	5	13.52		1.94	3.12
St. Clair	River and Wood.	400	1000	4	5.20			
St. Clair	Wood and Willson.	2740		8	338.53			
St. Clair	Central Way and Ohio.	1572	1047.91	7	7.43	11.63	137.46	74.62
Superior	Cuyahoga river and Mon. Park.	1063	21.86	2		2.75	5.12	
Superior	Mon. Park and Erie.	2046		15				
Superior	Erie and Perry.	1328	652.90	13	208.90	6.38	503.58	49.95
Spring	Superior and St. Clair.	3219	1396	5	4.23	9.13	16.31	
Water	Superior and St. Clair.	619		2				
Water	St. Clair and Front.	1182	297.86	14	85.36		188.60	45.63
West River	Columbus and old river bed.	550	295.50	5	8.53			
Wood	Superior and St. Clair.	5831	1914.46	4	59.35	6.50	34.75	5.00
Wood	Cross and Willson.	615	2400	4	7.99	7.50	17.64	11.37
Woodland	Willson and E. Madison.	8415		12				
Woodland	E. Madison and Woodland hills.	4913		2				
Viaduct	Water and Pearl.	4830	1222.87	2				
Orange	Intersection of Broadway.	3211	4117.0	16	400.94	17.12	375.74	44.43
		130	1240	7	181.46	12.75	13.43	
					8.84			
Total					\$5,961.73	\$1,011.23	\$928.55	\$975.08

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TABLE NO. 4

STATEMENT SHOWING COST OF CLEANING AND REPAIRS TO CATCH
BASINS DURING THE YEAR.

Arlington Court at Garden st	6 45
Alabama st. at Lake st	9 20
A. & G. W. R. R. at Spruce st.	23 90
Bridge st. at Fulton st	16 45
Broadway at Central Place	2 90
Broadway at Harvard st.....	7 25
Burton st. at Walworth Run	73 40
Carroll st	50 00
Cedar ave. at Cleve st	4 25
Cedar ave. at Lincoln ave.....	6 50
Central market	20 85
Clinton st at Kentucky st	9 13
Commercial st. at Fourth st	8 50
Columbus, opposite church on flats ..	8 75
Division st at Old River st	4 25
Commercial st. at Hill st.....	50 80
East Main st. at Spring st	8 00
Euclid ave. at Russell ave.....	13 12
Frank st. at Doan st	9 27
Frankfort st. at Water st	11 00
Fulton st. near Circle.....	14 77
Guernsey st.....	75 00
Garden st. at Putnam st	7 25
Garden st. at No. 44	3 00
Hamilton at Lawrence st	12 60
Hamilton st	12 57
Hamilton st. at Alabama st.....	2 00
Harbor st. at Lorain	9 82
Harmon st. at Scovill ave.....	3 65
Herald st. between Grand and Kinsman sts.....	14 08
Ingersoll st. east of Woodland Hills ave ..	15 00
Jay st. at No. 47.....	6 85
Kinsman st. at R. R. crossing.....	15 85
Kennard st. at Prospect st	8 97
Kingsbury Run at Forest st	50 00

Lincoln ave. at East Prospect st.....	16 75
Lawrence st. at Otis Steel Works.....	55 18
Lake st, extension	9 02
Main st. at No. 139.....	2 00
Merwin st.....	7 05
Mill st. at C. C. C. & I. R. R.	5 02
Muirson st. at St. Clair st.....	4 00
Mulberry st. at Spruce st.....	7 90
McHenry st. at St. Clair st.....	25 17
Orange st. at No. 66.....	3 85
Ontario st.....	3 50
Pearl st. at Vestry st.....	4 95
Petrie st.	35 20
Perry st. at Broadway.....	9 00
Pearl st. at Vermont st.....	9 12
Putnam st.....	2 00
Quincy st at Willson ave.....	20 25
Rockwell st. at Bond st.....	50
St. Clair st. at Lake st.....	19 85
St. Clair st. at Dana st.....	100 00
Sheriff st. at Prospect	31 41
Sterling ave. at Superior st	12 55
Scovill ave	20 65
Superior st	23 00
Webster st. at Allen	2 50
West River st.....	6 50
Opening catch basin.....	8 13
Common labor	1 88
	<hr/>
	\$1,043 51
Cleaning by contract... ..	1,859 06
	<hr/>
	\$2,903 17

TABLE No. 5.

STATEMENT SHOWING COST OF CLEANING, FLUSHING AND RE-
PAIRS OF SEWERS IN DETAIL DURING THE YEAR.

REPAIRING SEWERS.

Ansel ave at Hough ave.....	247 25
Bank st. at No. 58.....	39 70
Bright st. at Fountain alley.....	13 60
Canal st.....	15 05
Case ave. near Mason st.....	7 60
Case ave. near Cedar ave	9 07
Case ave at St. Clair st.....	30 05
Case ave at Mason st	10 35
Canal st. at Eagle.....	14 93
Canal st.....	7 19
Canal st. at Champlain.....	33 30

Carter st. at Scranton ave.....	7 70
Carter st. at R. R. tracks.....	2 99
Champlain st at Canal st.....	1 87
Charles st. at Woodland ave.....	6 70
Carroll st.....	240 31
Cedar ave. at Newton st.....	6 12
Cedar ave. at No. 35.....	9 48
Central market house.....	5 10
Chestnut Ridge Road.....	83 06
Clinton st. to Duane st.....	39 50
Columbus st hill.....	9 36
Columbus st. hill between Franklin and Lorain.....	8 50
Columbus st. at City limits.....	1 26
Columbus st. at C. C. C. & I. R. R.....	6 75
Columbus st. at Pearl st.....	2 00
Detroit st. at Kentucky st.....	37 57
Doan st.....	3 40
Dodge st.....	15 55
Duane st. from Clinton to Detroit sts.....	255 40
Elm st. at Superior st.....	12 50
Erie st. opposite Webster st.....	17 22
Erie st. near Euclid ave.....	16 36
Euclid ave. at Russell ave.....	5 33
Euclid ave. at No. 332.....	14 70
Euclid ave. at Erie st.....	20 78
Fairfield st. at Scranton ave.....	7 07
Frankfort st. at No. 78.....	12 90
Frankfort st.....	2 07
Front st. at Water st.....	16 88
Fulton st. at Bridge st.....	3 62
Garden st.....	1 00
Harvard st. at Broadway.....	14 51
Hay market.....	9 45
Hickory st.....	51 26
Huron st. at Sheriff st.....	11 20
Kennard st at Prospect st.....	24 37
Lake st. at Bank st.....	10 37
Laurel st at Scovill ave.....	9 90
Liberty st. at Detroit st.....	1 88
Lorain st.....	3 00
Lorain st. at Chestnut Ridge road.....	3 26
Long st. at G. Cooper's place.....	10 80
Meadow st.....	6 73
Merwin st.....	4 20
Merwin st. at Center st.....	6 50
Merwin st. at No. 235.....	4 10
Michigan st.....	22 61
Muirson st. at Chestnut st.....	17 49
Mulberry st. at Main st.....	8 25
Oak Place.....	50 40

Ontario st. between Prospect st. and Euclid ave	2 12
Ontario st. at Brownell	20 50
Ontario st.	1 88
Old River st.	12 00
Pearl st. south of Franklin ave.	10 17
Pearl st. at Division st	14 55
Pearl st. at Lorain st.	12 88
Perry st. near Superior st	9 40
Perry st. near Payne ave	8 10
Perry st. at Woodland ave	18 00
Poplar st. at Clark ave.	6 25
Prospect st. at Huron st.	7 67
Prospect st. at No. 455	12 41
Prospect st. at No. 202	11 75
Prospect st. east of Sterling ave	10 12
Prospect st. at Willson ave.	14 16
River st. near Light House st.	107 35
Root st. between Franklin ave. and Bridge st.	9 88
Scranton ave. between Fairfield and Jennings	314 25
Scranton ave. at Jennings ave.	39 75
Scranton ave. opposite House and Davidson's	5 85
St. Clair st. hill	61 94
St. Clair st. near Lawrence st.	3 00
Sterling ave. at Prospect st.	19 70
Sterling ave. at No. 399	8 99
Seneca st. between Canal and Michigan sts	25 37
Seneca st. hill	12 60
Seneca st. at Michigan st.	39 00
Sibley st. at Hayward st	2 25
Scovill ave. at No. 5	9 85
South Water st	2 00
Superior st. at Doan st.	25 05
Superior st. at No. 487	15 39
Superior st. at No. 479	13 22
Superior st. at Monumental Park	29 99
Superior st. at Dodge st.	17 12
Superior st. at outlet of sewer	11 26
Superior st. in front of Halle's hall	12 70
Superior st. between Square and Seneca st.	44 98
Superior st. between Square and Erie st.	28 68
Summit st. at Bond st	25 45
Spruce st. at Center st	6 60
Spruce st. at Main st	5 12
Tod st. sewer outlet	143 50
Vineyard Lane	3 95
Variety Iron Works	11 32
West Side gas office	8 00
West River st. at Main st	13 99
Winslow st. at Sycamore st	6 40
Woodland ave. at Perry st.	17 00

Woodland ave. at Vine st.....	8 55
Woodland ave. at Charles st	5 80
Woodland ave. at Willson ave	122 05
Woodland ave. at Cemetery st....	6 25

 \$3,008 86

FLUSHING SEWERS

Arlington st....	9 00
Alabama st.....	1 87
Alpha alley.....	63
Aaron st.....	4 05
Aust st.....	7 50
Brainard st.....	63
Blair st.....	10 75
Bridge st.....	4 18
Bich st.....	9 00
Burton st.....	62
Clark ave.....	3 62
Canfield st.....	3 75
Charles st.....	1 00
Carroll st.....	17 57
Cedar ave.....	17 43
Central market....	12 50
Cheshire st	10 50
Cross st	1 00
Chestnut st.....	2 18
Clinton st.....	19 45
Court house	6 00
Cracked alley....	8 63
College st	62
Davenport st....	1 88
Delaware st.....	2 76
Dunham ave....	15 75
Duane st	11 00
Dodge st	1 88
East Madison ave.....	11 00
Euclid ave	3 50
Forest st	3 12
Fourth st	12 00
Fountain st.....	2 00
Grand st.....	1 88
Granger st	12 50
Hamilton st.....	16 95
Harvard st.....	4 00
Hanover st.....	39 37
Hill st.....	1 75
Howard st.....	93
Huron st.....	93
Huntington st....	18 13

Irving st	24 83
Jay st	63
Jackson st	62
Kennard st	62
Kentucky st	16 00
King st	94
Laurel st	87
Lawrence st	2 62
Literary st	62
Lyman st	10 81
Mason st	27 13
Maple st	62
McLane st	2 62
Mechanic st	5 25
Merchants ave	1 00
Mill st	4 44
Monroe st	94
Mulberry st	200 12
Noble alley	62
Oak alley	4 00
Orange st	6 62
Orchard st	94
Oregon st	2 50
Oliver st	1 63
Ohio st	1 88
Olive st	94
Osborne st	88
Outhwaite st	13 01
Payne ave	1 88
Perry st	3 75
Phelps st	2 87
Pelton ave	3 00
Portland st	1 25
Professor st	3 93
Putnam st	12 69
Randall st	2 00
River st	25 25
Rose alley	1 00
Root st	1 94
State st	14 00
Sterling ave	3 19
Seelye ave	4 00
Siegel st	3 68
Seymour ave	10 75
Sibley st	24 69
Scovill ave	24 39
Solon st	5 37
Spruce st	13 75
Taylor st	5 75
University st	1 63

Vermont st	2 00
Ward st.....	1 68
Wasson st.....	3 51
Walton ave	3 94
Waverly ave.....	62
Warring st	5 63
West River st	19 00
Webster st	1 00
William st.....	22 00
Willson ave	7 31
Whitman st.....	2 12
Wiley st.....	3 00
White ave	1 75
Willard st.....	98
Woodbine st	3 80
York st.....	2 56
<hr/>	
Total cost of flushing.....	\$ 888 57
Total cost of repairs.....	3,008 16
<hr/>	
	\$3,896 73

TABLE NO. 8.

STATEMENT SHOWING COST OF REPAIRS OF SHEATHING ON
BRIDGES DURING THE YEAR.

Center street bridge	\$ 36 26
Columbus street bridge.....	16 50
Commercial street bridge	15 25
Eagle street bridge	23 75
Jefferson street bridge	14 50
Lower Central Way bridge	36 13
Main street bridge	33 25
Merwin street bridge.....	5 50
Seneca street bridge	142 37
South Water street bridge.....	15 75
Swiss street bridge.....	7 00
Upper Central Way bridge.....	75 64
Walworth Run bridge.....	83 07
Willow street bridge	48 12
<hr/>	
	\$555 08

TABLE No. 7.

STATEMENT SHOWING COST OF CLEANING AND OF NEW AND REPAIRS TO OLD CROSSWALKS DURING THE YEAR.

Alley between Lake and Summit sts	\$ 5 12
Bollivar st. between Erie and Prospect sts	14 63
Cheshire st. at Prospect st	8 58
Columbus st. bridge south end	32 46
Erie and Huron at Prospect st	52 06
Euclid ave. at Erie st	23 43
Euclid ave	45 71
Franklin ave. hill	57 03
Franklin ave. at Duane st	25 19
Fairfield st. at Professor st	30 00
Gardon st. at Cheshire st	14 06
Hayward st. at Prospect st	14 85
Hurd st. at Moore st	11 50
Lorain st. at Smith st	12 50
Ontario st. at St. Clair st	20 13
Ohio st. at Brownell st	11 33
Perry st. at Garden st	31 68
Scranton ave. at Wade ave	11 75
Scranton ave.	50 00
St. Clair st. at Erie st	71 20
Seneca st. at St. Clair st	31 68
Seneca st. at Lake	44 22
Seneca st. at Summit st	21 34
Washington st. at State st	12 50
Not stated	3 74
	<hr/>
	\$ 656 68
Cleaning by contractors	1,230 51
	<hr/>
	\$1,887 19

TABLE No. 8.

STATEMENT SHOWING COST OF LUMBER DURING THE YEAR.

Bridges	\$ 807 51
Paving blocks	1,157 10
Box gutters, drains, crosswalks, bridges, etc	2,107 00
	<hr/>
	\$4,072 21

TABLE No. 9.

STATEMENT SHOWING MISCELLANEOUS BILLS IN DETAIL.

City yard janitor	\$ 382 50
Repairs on pounds	65 07
Sharpening picks, etc	130 18
Hardware	436 26
Stationery and printing	53 85

REPORT OF THE STREET COMMISSIONER.

255

Supplies.....	43 87
Roof on sheds foot of Jennings ave.....	25 00
Bracing oil tank at Jennings and Scranton aves.....	14 02
Repairing Columbus st, washout.....	14 90
Cutting down and moving tree on Seneca st.....	23 00
Repairs, etc., on street intersections.....	48 73
Stairways cleaning, etc.....	10 62
Stone for streets, etc.....	587 32
Cleaning market grounds.....	105 62
	<hr/>
	\$1,951 04

TABLE NO. 10.

STATEMENT SHOWING SALARIES OF OFFICERS EMPLOYED IN THE DEPARTMENT DURING THE YEAR.

Street Commissioner.....	\$2,500 00
Assistant Street Commissioner.....	1,200 00
Clerk.....	640 00
Superintendent of Catch Basins.....	887 50
Superintendent of Repairs on Streets.....	1,008 50
Superintendents of Streets.....	1,155 50
Inspectors of Streets.....	1,627 75
	<hr/>
	\$8,984 25

ANNUAL REPORT
OF THE
BOARD OF
PARK COMMISSIONERS
OF THE
CITY OF CLEVELAND.
FOR THE YEAR ENDING DECEMBER 31, 1880.

ANNUAL REPORT

OF THE

BOARD OF PARK COMMISSIONERS.

OFFICE BOARD OF PARK COMMISSIONERS,
CLEVELAND, January 12, 1881.

To the Honorable City Council :

GENTLEMEN :—We have the honor to herewith submit the Annual Report of the Board of Park Commissioners for the year ending December 31st, 1880.

The following is an exhibit of the Park fund, showing the receipts and expenditures during the year :

RECEIPTS.

Balance on hand Jan. 1, 1880.....	\$ 3,001 00
Tax levy for park purposes.....	7,103 64
Warrants credited back.....	3 80
On account of settlement with L. S. & M. S. R. R. Co....	4 00
	—————\$10,112 53

DISBURSEMENTS.

General account	\$ 325 97
Monumental park.....	1,803 68
Lake View park.....	2,606 03
Franklin circle.....	780 74
Clinton park.....	627 91
South Side park.....	1,320 76
Miles park	166 11
	—————\$ 7,631 20
Balance on hand Jan. 1, 1881.....	\$ 2,481 33

No permanent improvements have been made in the parks during the year, as the condition of the fund would not justify any expenditure beyond that required to maintain them, and for the same reason but little more can be accomplished during the coming year.

Respectfully submitted,

A. EVERETT, *President.*

J. H. SARGENT,

J. H. WADE,

Commissioners.

W. H. ECKMAN, *Secretary.*

TWENTY-FIFTH

ANNUAL REPORT

OF THE

BOARD

OF

TRUSTEES OF WATER WORKS

TO THE

CITY COUNCIL,

TOGETHER WITH THE

REPORTS OF THE OFFICERS OF THE BOARD

For the Year 1880.

REPORT OF
TRUSTEES OF WATER WORKS.

To the Honorable Mayor and Council of the City of Cleveland :

GENTLEMEN :—In compliance with law we submit to you the report of this department for the year 1880, it being the Twenty-fifth (25) Annual Report.

The gross receipts for water as shown by the report of the Secretary, are \$202,379 92, being an increase over the previous year of \$20,204 59 making the increase of net income \$20,088 90.

The amount expended for the extension of the pipe system is \$99,670 72, a large proportion of which was for the cost of laying a 30 inch main pipe from the pumping works to the intersection of Superior and Water streets, and also through Monumental Park. Though it may be necessary the coming season to continue the same from Water street, to the Park, it is hoped that after providing from the earnings of the department for the further cost of a new boiler house, boilers and pumping engine, now partially contracted for as stated hereafter, a surplus of funds will remain sufficient to lay all the distributing pipe that the interests of the city may demand.

Contracts were made with H. P. Card for different qualities of coal for use at the pumping works for \$1.48 and \$1.65 per ton delivered on cars in the engine house lot. Contracts were also made with P. Smith and Geo. M. Smith for new boiler-house foundations ; with the Variety Iron Works for new boilers, and with H. R. Worthington for a pumping engine. Proposals will soon be invited for the superstructure of a new boiler house.

We have been able to meet all payments thus far for the enlargement of the pumping and delivery capacity of the works as set forth in our last annual report, from the surplus earnings of the department, and have reason to hope that, on account of delays in letting contracts and increased revenue, we shall be able to meet all payments for the work yet to be done without increasing the bonded debt of the city.

The number of service pipes that have frozen during the present winter has been unprecedentedly large in those streets in which pipe was laid during the earlier years of the works, but we are pleased to state that few such cases have occurred in streets in which pipe has been laid in recent years, and only then in cases where streets have been graded. It is our purpose during the coming season to cause all old pipes not deep enough to be safe against frost, to be lowered to such depth as experience has taught us will be safe. But while we may make the mains secure, we have no authority to compel the owners to lower their services, and if that precaution is neglected the same difficulty we have just experienced may be repeated during any cold winter hereafter.

With the improvements now in progress at the pumping works, which will eventuate in lowering the pump wells for the Cornish engines we fear no restriction to the passage of water through the tunnel, by obstruction of ice at the inlets of the crib, that will in any wise be serious.

With the large increase of population as shown by the late census, and increase of water consumption by manufacturers and general takers, we feel that a comprehensive and wise provision should be made for the future, and if a large draught is made in the near future on the income from this department to anticipate the wants of a prosperous and growing city, it will be but a judicious economy.

The historical diagram as prepared by the Superintendent will give you at a glance the probable future that must be provided for. While we realize that the strictest economy should be adhered to, and that this department should do all in its

power to lessen the burden of debt of our city (we feel this incumbent in order to prolong and make permanent our prosperity as a city) yet so vital is the supply of water that we should keep in advance of the demand far enough to ensure a good supply to all.

We appreciate the efficient alertness of those in direct charge of the works, and ask your careful scrutiny of facts and details as compiled by them. We shall put into practical operation whatever seems to be wise and judicious of their intimations.

We have changed the tariff for sprinkling streets and practically given to the citizens the water free of charge, only charging a small fee of twenty-five (25) dollars for each and every sprinkling cart or wagon for the season, making a reduction of seventy per cent.

All of which is respectfully submitted,

TRUMAN DUNHAM,	}	<i>Trustees</i> <i>of</i> <i>Water Works.</i>
S. W. SESSIONS,		
WM. H. LUTTON,		

Cleveland, March 5, 1881.

REPORT OF SECRETARY.

To the Trustees of Water Works:

I hereby respectfully submit my report as Secretary, for the year 1880.

The receipts for water including permits, less

amount refunded is \$202,377 92

The net amount of expenses and repairs is 55,914 89

Leaving the net earnings \$146,463 03

The comparative amounts with the previous year are :

Increase of receipts for water \$20,204 59

Increase of expenses and repairs 115 69

Increase of net earnings \$20,088 90

The receipts and disbursements for the year and cash balances as shown by the books of this office are as follows :

RECEIPTS.

For water from assessments	\$124,733 83	
For water by meter measure	75,903 25	
For permits (in water rent account)	2,061 00	\$202,758 08
On construction account	598 12	
On pipe extension account	795 75	
On water meter account	477 86	
On office and general expense account	16 54	
On general repairs account	336 32	
On expense account, engine house	11 70	2,236 29
Cash in office at last annual report	751 91	
Cash in City treasury at last annual report	47,747 32	48,499 23
		\$253,493 60

DISBURSEMENTS.

For pipe extension.....	\$100,466 47	
" interest on water bonds.....	40,000 00	
" returned water rent.....	380 16	\$140,846 63
" office and general expenses	20,527 12	
" general repairs.....	8,398 71	
" expenses at engine house	27,119 88	
" repairs at engine house.....	213 74	56,259 45
" payments on contract for boilers.	7,619 23	
" " " boiler house.....	4,890 36	
" water motors.....	2,962 03	
On construction account.....	347 54	
On lake tunnel crib account.....	20 00	15,839 16
Cash in office Jan. 1st, 1881.....	802 69	
Cash in City treasury, subject to draft, Jan. 1881.....	39,745 67	40,548 36
		\$253,493 60

The receipts other than those embraced in water rent and permit accounts are from :

Jan.	CCC & I R'y Co. for repairing hydrant.....	\$ 13 78
	Malleable Iron Works for making connection.....	32 10
	Globe Iron Works for scrap iron 3845 lb, \$25.00 per ton.....	480 18
	Globe Iron Works for scrap iron, 11,794 lb \$12 50 per ton.....	117 94
Feb.	S. Wood & Sons for repairing pipe.....	6 43
	J. J. Blatt	1 20
	C & P R'y for repairing pipe.....	47 31
March	J. O'Donald for 970 lb scrap iron	9 70
	H. J. Ready for 3 elevator connections	293 16
	D. M. Osborne for making elevator connection.....	67 75
	H. J. Ready for making two elevator connections.....	106 51
April	Valley R'y Co. for making connection.....	75 00
	Murphy & Co. for making connection.....	\$ 23 06
May.	J. Chatterton for scrap.....	4 46
	J. Farnan's estate for 3073 lb. old brass, a 15¼ cts.....	476 89
	" " " 27½ " old lead.....	1 37
	" " " 20 " old iron, at ¼c	10
	S. Woods & Son, connection for Cleveland Baking Co.....	60 10

REPORT OF TRUSTEES OF WATER WORKS.

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June.	F. A. Wadsworth for changing connection.....	20 08
	" " repairing pipe.....	7 50
July.	C. Hoyt for repairing stop cock.....	4 40
	Wadsworth & Roberts for labor.....	2 00
Aug.	Cemetery Trustees for making connection.....	44 04
	A. & G. W. R'y for repairing pipe.....	5 50
	Coe, Ely & Harmon for making connection.....	37 06
	Valley R'y, repairing valve.....	10 50
Sept.	J. H. Devereux and others for connection.....	96 62
Oct.	Valley R'y Co. for valve.....	12 30
	A. F. & H. Strator for making connection.....	34 20
	H. Gilbert for old cement pipe.....	1 50
Nov.	A. J. Aiken for scrap sold	1 53
Dec.	Brush Electric Co. for making connection.....	48 20
	H. J. Ready for making connection	85 51
	H. C. Spooner for old cement pipe.....	1 00
	Warrants on City treasurer cancelled before payment.	5 82
		<u>\$2,236 29</u>

LEDGER BALANCES JANUARY 1, 1881.

FACE OF LEDGER.	DEBIT.	CREDIT.
Construction.....	\$2,623,319 24	
Interest	121,984 59	
New boiler.....	7,619 23	
New boiler house foundations.....	4,890 36	
Water meters.....	17,152 34	
City treasurer.....	39,745 67	
Cash.....	802 69	
Water rent income		\$1,047,442 86
Bonds outstanding.....		1,200,000 00
Bonds redeemed		525,000 00
City of Cleveland.....		48,071 26
	<u>\$2,820,514 12</u>	<u>\$2,820,514 12</u>

BONDS.

Seventy five thousand dollars of Water bonds due October 1, 1880, was paid from the Sinking Fund provided for that purpose, leaving outstanding twelve hundred thousand dollars. Four hundred thousand dollars of which are to be paid from the above fund. No provision has been made for the payment of the balance.

H. C. HAWKINS,

Secretary.

Cleveland, March 5, 1881.

REPORT OF THE SUPERINTENDENT AND ENGINEER.

To the Board of Trustees of Water Works—

GENTLEMEN :—I herewith submit the twenty-fifth annual report upon the condition of the Water Works.

LAKE CRIB.

I am enabled to report that no material change has taken place in this structure during the year just closed.

During the night of December 28th, broken ice lodged against the south-west side of the crib in such quantities that it rested upon the bottom of the lake, and raised to a height of twelve feet above the surface, temporarily obstructing the flow of water to the inlet shaft. A strong westerly to south-westerly wind had been blowing for several days which had lowered the surface of the lake to such an extent that only enough water would flow to the Cornish pumps to keep one of them working at about half the usual speed. The night was intensely cold and the waste of water was greater than during any other day throughout the year. The result was that before the lake raised to its ordinary level, the water in the reservoir had fallen seven feet, and it became necessary to start up both engines in the south building, where, the pump wells and suction pipes being deeper, there was abundance of water. During the seven years that the tunnel has been in use there has never been any interruption to the flow of water until this winter, and while—judging from the experience of others and our own experience with the old aqueduct—we might antici-

pate temporary interruption from anchor ice, the closing of the inlets with block-ice was never anticipated. The blockade was of short duration, however, lasting only a few moments.

Nothing has been done, as yet, towards the permanent rebuilding of the superstructure, and the experience of the past two years strengthens the opinion entertained and expressed by many whose judgment should not be disregarded, that the safest material to use in rebuilding would be timber. I regard the opinion of one person with whom I have consulted on the subject, and who has had an experience similar to our own, as of great weight. He expressed to me his belief that the safest material to use in such a building, resting upon a foundation of any kind less rigid than rock, would be timber.

It has been suggested that a breakwater, extending around three sides, and distant about fifty feet from the building, would protect it so that masonry of any description might be used with safety. While that is true, it is also a fact that the original expense of building such a breakwater would be greater than the cost of rebuilding the crib with timber, and the renewal of the structure thereafter, as might be necessary, would be as expensive as the renewal of the crib superstructure itself, while no greater safety would be secured.

When the proper time arrives for final action, the different plans suggested should be thoroughly examined before any one of them is adopted; you will then, no doubt, select the one which, under all the circumstances, will be best.

TUNNEL.

With the exception of the brief interval mentioned in connection with the crib, the flow of water through the tunnel has been uninterrupted, and the quality equal to that of former years.

BUILDINGS AND MACHINERY.

No repairs have been made to either of the engine houses during the year. I would again call your attention to the

necessity of renewing the stairs leading to the top of the stand pipe ; they are badly worn and are unsightly in appearance. I would also recommend that the Cornish engines, and the interior sides of the walls and wood-work of the engine room be painted at the same time the east wing is being fitted, for the reception of the new Worthington engine.

A stairway and gallery has been built, giving access to the tower rooms in the south building.

The foundation for the new boiler house and chimney, commenced late in the fall, was not as nearly completed as was desired, owing, partly, to delay in the shipment of stone from the quarries, but principally on account of the early commencement of winter. The excavation, piling and timber work, and the masonry for the chimney foundation having been completed, the remaining work can be pushed forward rapidly as soon as work can be resumed in the spring, especially, as nearly all the material is now on the ground. The amount expended upon the work up to the close of the year was \$4,890 36.

The building is designed to accommodate, when fully completed, all of the boilers required for running the two Cornish engines and two other engines of ten million gallons capacity each. Only one-half of the building is being erected under the present contract, the other portion may be built whenever it becomes necessary in the future to add to the pumping capacity of the works.

The new pumping engine now being built by H. R. Worthington, of New York, is to be of ten million gallons capacity daily, and, by the terms of the contract, is to be completed by the first of April next ; but owing to the delays heretofore mentioned, the boilers cannot be set and inclosed in time to use the engine at so early a date. The contract price of this engine, including the foundation above the floor line, boiler feed-pump, and all steam and water pipes within the engine room, is \$38,500, no portion of which has yet become due.

Three boilers of Otis steel are being built by the Variety

Iron Works of this city, to be used in connection with the new engine, the contract price for which, exclusive of pipe and fittings, is \$14,875, upon which has been paid the sum of \$7,619 23. They will be completed by the time the foundations are ready to receive them.

RESERVOIR.

The reservoir has not required any repairs or attention other than the usual care bestowed upon the paths, the cutting of grass and the removal of weeds from the inner slopes above the water-line by the keeper.

The brick lining will, no doubt, require extensive repairs in the spring, as it is likely to be considerably damaged by the heavy ice already formed in the basins, which, while adhering to the brick work, raises and falls with the water and carries with it more or less brick-work every cold winter. Last winter being unusually mild no damage occurred.

The stairs, fences, walks and other parts of the grounds are in good order.

MAIN PIPES.

The 16 inch, wrought iron, cement lined main pipe in Franklin street hill, the breaking of which, one year ago, caused so much damage, has been re-laid with cast-iron pipe from Columbus street to the top of the hill, a distance of 1295 feet. There yet remains about 1600 feet of the same kind of pipe in the 16 inch line, 1050 feet of which is between the top of Franklin street hill and the west side of Franklin Circle, the remainder, 550 feet, is in Ohio street, between Broadway and Erie street. This should be re-laid with cast-iron pipe as soon as the finances of the department will permit.

The new 30 inch main leading from the pumping works to Water street, was completed and put in use early in November, since which time the pressure in the lower part of the City has been materially increased and made more uniform. We are now enabled to use both engines in the south building at the same time.

The intensely cold weather of the last week in December, when both of the large engines had to be kept running day and night, and during which time the draught of water (not legitimate consumption) from the pipes was greater than during any day in the hottest and driest time in summer, demonstrated at an earlier day than was anticipated, the urgent necessity for this new main, without which the supply of water during that period would have been insufficient.

A 30 inch pipe was laid in Superior street, through Monumental Park, previous to the repaving of that thoroughfare. A connection was also made between this pipe and the old 20 inch main at the intersection of Superior and Ontario streets which, when the new main is extended from Water street to the Park, will serve as a new feeder to the old system of supply mains.

It is proposed, early in the coming summer, to take up and re-lay the stone pavement in Superior street between Water street and the Park ; while that work is being done, the new 30 inch main should be laid from its present terminus at Water street to that part of it now laid through the Park, a distance of 1350 feet. An extension of 100 feet on the easterly side of the Park would give an additional connection with the 8 inch pipe in Superior street east of the Park, and thereby increase the feed to the 16 inch main in Erie street.

The length of the main pipe added during the year is as follows : 30 inch, 6886 feet ; 20 inch, 130 feet ; 16 inch, 41 feet.

DISTRIBUTING PIPE.

The extension of distributing pipe during the year was 3 miles and 3390 feet, making the total length now in use 115 miles and 474 feet. Adding main pipes above 12 inches in diameter, the total length is 125 miles and 3148 feet.

STOP-GATES.

Of stop-gates, 95 have been added, making the total number set, to the 31st day of December, 2205.

FIRE HYDRANTS.

The total number of fire hydrants now in use is 998. Of this number 40 were added during the past year.

The accompanying tables give information in detail of the amount of work done as described above.

SERVICE PIPES.

The new service pipes connections made during the year are as follows :

$\frac{5}{8}$ inch	-	-	-	-	-	649
$\frac{3}{4}$ "	-	-	-	-	-	9
$1\frac{1}{4}$ "	-	-	-	-	-	1
$1\frac{1}{2}$ "	-	-	-	-	-	1
2 "	-	-	-	-	-	15
3 "	-	-	-	-	-	1
4 "	-	-	-	-	-	13
Total						689

The total number of service connections made to the 31st of December is as follows :

$\frac{5}{8}$ inch	-	-	-	-	-	10,864
$\frac{3}{4}$ "	-	-	-	-	-	393
1 "	-	-	-	-	-	108
$1\frac{1}{4}$ "	-	-	-	-	-	4
$1\frac{1}{2}$ "	-	-	-	-	-	22
2 "	-	-	-	-	-	84
$2\frac{1}{2}$ "	-	-	-	-	-	2
3 "	-	-	-	-	-	35
4 "	-	-	-	-	-	51
6 "	-	-	-	-	-	1
Total of all sizes						11,564

There are 1551 service pipes not in use, many of which have been permanently abandoned.

The number in use on the last day of the year was 10,013 being an increase for the year of 728.

METERS.

The number of meters added during the year was 44, and the total number now in use is 402. The number of each size and the kind of meter is as follows :

KIND OF METER.	$\frac{3}{4}$	1	$1\frac{1}{4}$	2	3	4	
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	
Worthington Piston.....	120	110	47	51	21	3	352
Fitts Rotary.. .. .	3	2		1	2		8
Ball & Fitts, Piston	24	11	3				38
Crown Rotary	2	2					4
Total	149	125	50	52	53	3	402

There are also in use 42 elevators operated by water power, an increase for the year of 11.

The quantity of water measured by meters and hydraulic elevators was 645,416,662 gallons.

The small number of meters now in use, have served in the past to check a very large waste of water. In one case, discovered not long ago, a waste was going on amounting to 86,500 gallons per day. another one, equally great, was discovered in the same manner a short time before. in both cases the water passed off without coming to the surface, in one case going into a sewer, in the other into the sand on the lake shore. These leaks would not have been discovered had there been no meters on the service pipes. Cases similar to these are constantly coming to our notice. and I have no doubt that the small number of meters now in use serve to check the waste of at least one million gallons of water per day.

If the great waste of water that can go on through a very small outlet under pressure, was generally known. I think less would be wasted. Frequent trials, made in the basement under this office, with a maximum water pressure of about 27 pounds per square inch, resulted in filling a tank, holding 100 cubic feet, or 748 gallons, as follows :

1-16 inch, circular orifice, time filling, 20 hrs. 20 m.

1-8	"	"	"	"	"	5	"	33	"
3-16	"	"	"	"	"	2	"	2	"
1-4	"	"	"	"	"	1	"	39	"
5-16	"	"	"	"	"	1	"	22	"
3-8	"	"	"	"	"	1	"	15	"
7-16	"	"	"	"	"	1	"	10	"
1-2	"	"	"	"	"	0	"	55	"
3-4	"	"	"	"	"	0	"	37	"

The pipe from which the water was drawn supplies a portion of the City Hall building, and the experiments were made while water was being used from it elsewhere, consequently the pressure was not uniform, the result however is of more value on that account, for the reason that the conditions under which the water was drawn were similar to those prevailing in most cases, where waste or leakage is going on.

The smallest of the discharges given above would waste 322,000 gallons of water per annum, anywhere in the city at the level mentioned, while an orifice $\frac{1}{8}$ inch in diameter would discharge 1,191,360 gallons or nearly four times the quantity discharged from the small one in the same time.

I believe that a majority of the wasteful water takers would, if they could fully realize these statements, discontinue the practice, but the application of a meter seems to be the only way to bring them to a realizing sense of their wastefulness.

I would recommend the continuance of the application of meters in all cases where the supply is large, all cases where the use is intermittent or cannot be estimated with a reasonable degree of accuracy and in all cases where there is a persistent wastefulness.

DISTRIBUTION.

The total quantity of water pumped during the year was 3,725,683,021 gallons, an increase over the quantity pumped in

1879 of 270,411,040 gallons and a per diem increase of 712,963 gallons, the rate of increase for the year was, therefore, 7 82-100 per cent.

The cost of pumping each million gallons of water 100 feet high was \$4 64, in 1879 the cost was \$5 00. Every item of expenditure for the year, made for the pumping works, is included in this cost, and it will be seen that, notwithstanding an increase in the cost of coal since the first of July, of 35 cents per ton, there has been a reduction in the cost of pumping of 36 cents per million gallons.

GENERAL.

The question of a water supply for the more elevated sections of the city, lying to the south and east, is one that must at no distant day be brought before you.

Before deciding upon any plan I would suggest that the question of increasing the water head of our present system be carefully considered. The necessity for a better pressure in the higher portions of the city, taking water from the present system, is becoming more apparent each year, especially as water is now being so extensively used as a motive power for elevators and other light machinery. In many of the older streets the head of water is less than 50 feet and during the summer season, when the use of water is greatest, it often fails to reach the second floors of modern buildings for weeks in succession. The present water head is 158 feet above the lake, but a large portion of the city is at an elevation of 80 feet to 110 feet above the lake, and during times of greatest use of water, does not receive a satisfactory supply. I would recommend that the head be increased to 180 feet or an addition of 22 feet to our present head, whenever steps are taken to supply water to the highest levels of the city. The district to be supplied by high service works, would be materially reduced in area by an increase of head in our present system, and as a matter of course the machinery would be of less capacity.

In connection with this plan, it would be necessary to build

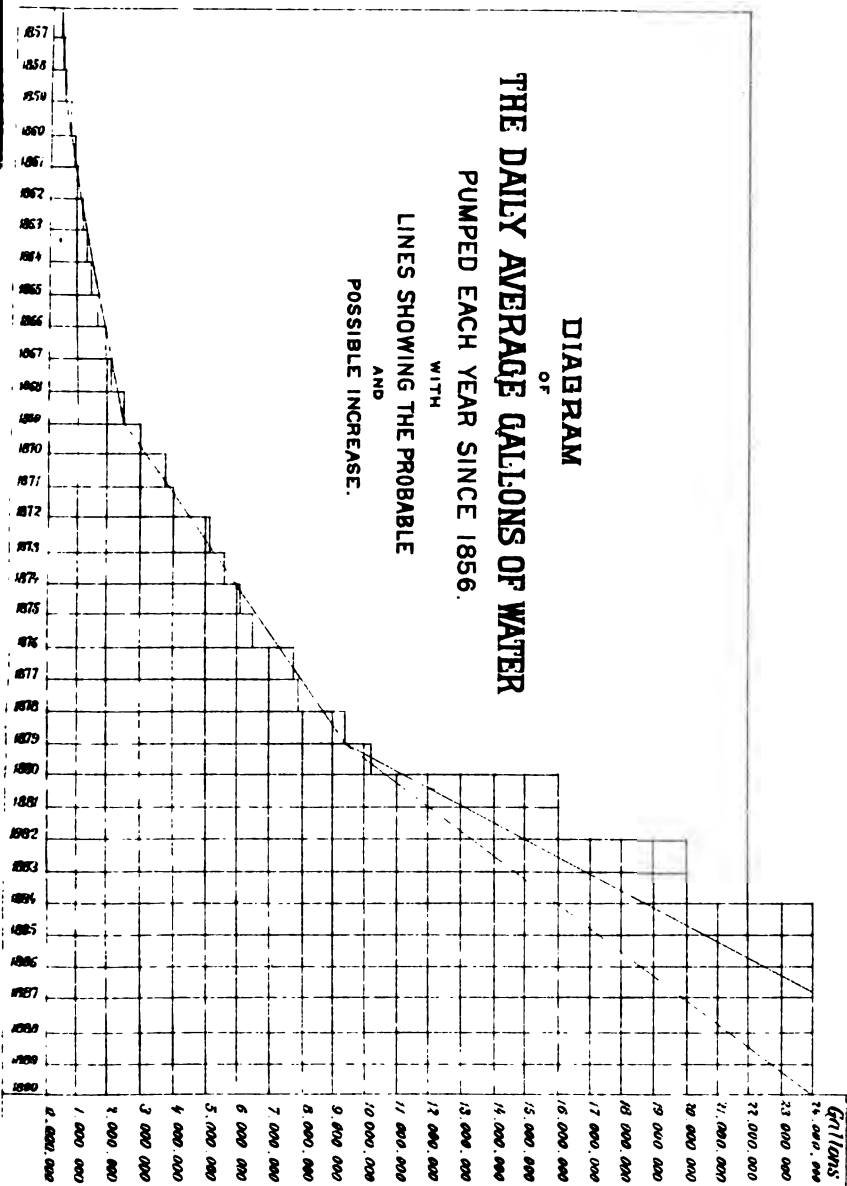
a new reservoir, which should be of large storage capacity and so located as to receive water from any new pumping works that may be built in the future, as has been suggested at some point east of the city. No changes would be required to adapt the machinery in the new pumping house to the increased head; it would only be necessary to carry a slightly increased steam pressure to enable the pumps to do the same work they are now doing. In the case of the old Cornish engines the stand pipe would have to be increased in height, and the pump plungers loaded to counterbalance the increased weight of the column of water. No other changes will be necessary. The street mains, with the exception of a few old lines of cement lined wrought iron pipe, that will have to be re-laid in any event, are of ample strength.

If these changes should be made, the abandonment of the present reservoir would of course follow, and that property could be sold for a sum that would go a long way towards paying the expense of such improvement. High service pumping works would be located upon and take water from the new low service reservoir.

In view of the rapid growth of Cleveland, and especially in the rapid increase in the use of water, it has been suggested that the time is not far distant when new pumping works, located on the lake shore, east of Willson avenue, will have to be built. Such works should pump water to about the same elevation I have already advocated, and would when built be only an enlargement of the system I have suggested. A diagram is herewith presented, showing the daily average and annual increase in the quantity of water pumped since the first year the works were in operation.

It will be seen by extending the averages of the past twenty years that in the year 1890, the average daily supply required will be about twenty-three million gallons, and may reach thirty million gallons, if the rate of increase of the past ten years be maintained for the ten years to come. If we

DIAGRAM OF THE DAILY AVERAGE GALLONS OF WATER PUMPED EACH YEAR SINCE 1856. WITH LINES SHOWING THE PROBABLE AND POSSIBLE INCREASE.



1

may judge from the experience of the present winter, the maximum demand will exceed the daily average by about ninety per cent., and that amount of surplus pumping power must be provided and ready for use at all times.

When the new pumping engine, now under contract, is completed, the total pumping power will be about thirty-eight million gallons, only one-half of which should be kept in constant service. As will be seen by the report of the engineer of pumping works, Mr. Doty, the Cornish engines cannot be depended on, in times of low water in the lake, to furnish any water, on account of the shallow depth of the pump wells, and as the quantity pumped by the other engines increases, the water gradually falls to lower levels, and even in times of ordinary stages of water these wells fail to receive enough to furnish the pumps. .

The only safe remedy I can suggest is to build new pump wells outside of the building, and change the suction pipes so as to take water from them. This can be done in connection with the aqueduct that must be built to supply the new Worthington engines.

The low temperature, beginning in November, and continuing to this date, has caused the frost to penetrate the ground to a depth hitherto unknown in the history of the Water Works, and a greater number of service connections have frozen than during any winter since the works were built. This has been more noticeable in streets in which pipe was laid during, or shortly after, the construction of the works, when the practice was to lay all distributing pipes four and a half feet deep. For the last ten years, however, all such pipes have been laid five and a half and six feet deep. From none of these streets, excepting where grading has been done, subsequently, has there been any complaints.

I would recommend that all pipes, the services from which have been frozen, be lowered to a depth beyond the danger of frost in the future. In a few instances plumbers have found

frost over six feet in depth, but the general average up to this time appears to be, under stone pavements, about five feet.

During the very trying season of extreme cold, lasting almost continuously up to this time, every employe has felt the utmost solicitude for the safety and efficiency of the different parts of the works, and each one in any way connected with the care of the machinery, or the system of distribution, has performed his duty in a manner creditable to himself and satisfactory to the Superintendent.

Respectfully submitted,

JOHN WHITELOW,

Superintendent and Engineer.

Cleveland, February 15th, 1881,

REPORT OF THE
ENGINEER IN CHARGE
OF THE
PUMPING WORKS.

To the Board of Trustees of Water Works :

GENTLEMEN :—In reporting the condition of the Pumping Department of the Cleveland Water Works for the year 1880, I am able to say that nothing has seriously interrupted the constant supply of water in sufficient quantity to meet all demands upon us. This very desirable state of affairs can be attributed largely to the judicious forethought of your Superintendent in recommending to your honorable body the necessity of putting in the new 30-inch main recently completed. December 30th the water in the aqueduct fell so low that the Cornish engines could not be used, and we were obliged to run both engines in the south building. This could not have been done successfully without the new main. With this new main and the engine and boilers now under contract in place, our city will be in possession of pumping machinery sufficient for the next five years, with due allowance for increased consumption.

ENGINES.

The old Cornish engines are in good condition, considering the long and faithful services they have rendered, and with slight repairs, will continue to serve the city for many years. They are running every day and have done good service during the year, but the pump wells are so shallow that these engines cannot be depended upon at all times. This defect has long been known, but it becomes more apparent as additional pumps

are connected with the aqueduct, and some remedy should be applied at once, or serious accidents to these engines may occur.

The Henderson engines are held in reserve as usual, and are ready for service at all times.

The Worthington engines are our main dependence, as will be seen by reference to schedule farther on, giving quantities, etc.

Only slight repairs have been necessary upon any of the engines or pumps at the works the past year. Below please find a statement of the amount expended upon each engine, excepting the work done at the works by our regular force, the expense of which will appear in the Secretary's report of running expenses.

Amount of repairs on each engine for 1880 :

Worthington Duplex Engine.	-	-	\$236 80
Henderson " "	-	-	19 93
East Cornish "	-	-	15 96
West " "	-	-	48 00

Schedule showing gallons of water pumped and coal consumed in pumping ; per centages of coal consumed and water pumped by the different engines ; contract price of coal, coal consumed and cost of raising 1,000,000 gallons into reservoir.

ENGINES.	Gallons Water Pumped by the Different Engines.	Pounds of Coal Consumed by the Different Engines.	Per cent. of Water Pumped by the Different Engines.	Per cent. of Coal Consumed by the Different Engines.	Pounds of Coal Consumed Pumping 1,000,000 gallons Water into Reservoir.	Contract Price of Coal per Ton.	Cost of Raising 1,000,000 Gallons into Reservoir.	Year.
Worthington ...	2,739,928,800	8,505,463	73.54	68 86	3104	\$1.05	\$2.56	1880
Henderson	541,795,871	2,379,600	14 54	19.27	4391	"	3.62	"
Cornish	443,958,350	1,465,900	11.92	11.87	3302	"	2.72	"

BOILERS.

Twelve boilers have been in use during the past year, nine of which are in good condition. But the three old Cornish boilers in the east wing of the north building are condemned and will be removed very soon to give place to the new Worthington engines. Three boilers, removed from the south boiler house two years ago, are still laying in the north side yard, awaiting the construction of the new boiler house, when they will again be called into service.

Three new boilers, 10 feet diameter and 20 feet long, of the marine variety, are in course of construction at the Variety Iron Works, which are calculated to furnish steam for the new engines now under contract, and will be placed in the new boiler house on the north side.

No boiler repairs have been necessary since my last report, excepting a few rivets driven around the fire doors of the Connely boilers. All the boilers at the works are in good repair, excepting those mentioned as condemned.

IMPROVEMENTS.

In connection with the plans for a new boiler house, provisions have been made for workshops. This improvement was very much needed since the works have reached their present magnitude. Minor repairs are almost constantly necessary, and the time spent in sending them away would in many cases be sufficient to do the work. I would, therefore, recommend, that when these shops are completed, they be supplied with such tools and machinery as will enable us to do the most of our repairs at the works.

In preparing the east boiler room for the reception of the new Worthington engines, some necessary improvements must be made to transform it from a boiler room to an engine room, and I would suggest that in connection with these improvements, the long neglected Cornish engines and engine rooms

receive such repairs and decorations as will make them more in keeping with the reputation of the works.

A gallery and stairway, leading to the two upper rooms in the northeast and northwest corners of the south building, has been completed in a neat and substantial manner, thus giving access to our drafting and store rooms. Besides, the gallery furnishes a good view of the machinery to visitors, an improvement very highly appreciated by us.

Our force of assistants at the works remains the same as at the time of my last report, and their continued service only strengthens my confidence in their ability to fill their respective positions and their desire to promote the interests of this department.

Reference to the following tables will give you a comprehensive synopsis of the work of 1880 as compared with former years.

Respectfully submitted,

R. DOTY,
Engineer in Charge.

TABULAR STATEMENTS.

The following pages contain tabular statements showing the work of engines, distribution of water, extension and laying of pipes, location and number of stop-gates and hydrants set, abstract of expenditures, &c,

1

WORTHINGTON DUPLEX ENGINE RECORD FOR 1880.

MONTHS.	DAYS.	PUMPING.			COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hours.	Minutes.	Strokes.	Raising Steam.	Pumping.	Total.			
January.....	31	744	.....	398,315	3,800	768,600	770,400	243,865,300	157.973	41,829,504
February.....	12	274	.....	165,647	4,200	318,200	322,400	102,701,140	158.065	42,110,691
March.....	31	744	.....	402,193	4,200	841,683	845,983	249,869,660	157.978	38,984,778
April.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May.....	31	744	.....	453,299	3,800	838,500	842,300	231,028,780	157.725	42,997,918
June.....	24	559	20	368,428	.....	646,400	646,400	222,225,360	157.850	45,347,999
July.....	31	744	.....	461,227	3,000	818,100	821,100	298,146,740	157.656	45,955,549
August.....	31	743	30	482,774	6,900	850,700	857,600	299,319,880	157.825	46,076,996
September.....	31	728	.....	452,171	3,800	902,700	909,500	280,846,020	158.070	42,779,217
October.....	21	488	.....	286,687	.....	567,200	567,200	177,745,940	158.496	41,531,223
November.....	30	719	.....	446,986	2,400	905,600	908,000	277,121,220	158.619	40,496,095
December.....	31	744	.....	516,243	8,800	1,099,800	1,073,600	320,070,660	158.975	39,461,342
Totals and Averages.	304	7,221	50	4,419,240	40,900	8,506,483	8,546,983	2,739,922,800	158.096	42,397,185

HENDERSON DUPLEX ENGINE RECORD FOR 1880.

MONTHS.	DAYS.	PUMPING.			COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hours	Minutes	Strokes.	Raising Steam.	Pumping.	Total.			
February	19	430	...	284,463	.....	642,000	642,000	147,798,620	158.180	80,560,080
April	30	720	...	442,208	4,200	1,023,000	1,030,200	235,780,064	157.814	30,227,357
June	7	152	40	102,423	4,800	232,800	237,100	55,010,746	157.773	31,170,547
October	11	258	...	184,759	5,400	452,100	457,500	97,553,141	158.091	28,316,804
December	8	15	...	10,608	.....	26,600	26,600	5,675,280	159.684	27,419,551
Totals and Averages.	70	1,565	40	1,024,460	14,400	2,579,000	2,594,000	541,785,871	158.310	29,558,769

CORNISH ENGINE RECORD FOR 1880.
WEST ENGINE.

MONTHS.	DAYS.	PUMPING.		COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hit	Min	Strokes.	Raising Steam.	Pumping.			
January	28 188			88,800	38,800	111,000	28,344,300	157,511	25,817,436
March	27 213			97,600	31,800	117,400	31,329,600	157,935	27,760,539
April	28 207			95,050	30,600	113,400	30,511,050	158,000	27,994,036
May	14 142			73,225	15,400	75,600	23,537,325	157,756	26,065,983
July	25 245			120,275	29,800	116,400	38,604,275	157,496	34,782,156
August	26 257			126,325	29,000	122,800	40,229,325	157,926	35,000,949
November	25 244			118,875	32,600	122,600	38,158,175	158,620	32,610,231
December	24 279			124,000	30,800	143,400	43,014,000	158,927	38,858,130
Total and Averages.	193 1788	50		862,750	223,800	922,600	273,732,050	158,046	30,361,497

CORNISH ENGINE RECORD FOR 1880—Continued.
EAST ENGINE.

MONTHS.	DAYS	PUMPING.		COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.			
February	24	199	29	92,575	27,000	99,400	29,716,575	158.141	23,107,596
May	12	118	40	56,525	17,800	55,000	18,144,525	167.848	32,681,916
June	26	297	50	181,375	33,600	132,000	42,171,375	157.170	33,471,961
September	26	246	25	119,950	30,400	120,400	38,503,950	168.099	33,754,802
October	26	234	25	110,975	29,000	115,200	35,622,975	168.508	32,745,887
December	2	34	45	18,900	2,400	20,300	6,006,900	159.874	35,887,709
Total and Averages	116	1101	25	630,300	140,200	543,300	170,226,300	168.272	31,925,686

CORNISH ENGINE RECORD FOR 1880.—*Concluded.*
BOTH ENGINES.

ENGINES.	DAYS.	PUMPING.		COAL CONSUMED.			GALLONS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.		
West engine	183	1788	50	852,750	233,800	922,000	1,156,400	158,046	30,361,497
East engine.....	116	1101	25	530,300	140,200	543,300	683,500	158,272	31,925,636
Total and Averages	309	2890	15	1,383,050	374,000	1,465,900	1,839,900	158,159	31,143,596

SCHEDULE SHOWING THE DISTRIBUTION OF WATER FOR EACH MONTH AND DAY IN THE YEAR 1880.

MONTHS.	Gall'ns of water pumped by Cornish engines.	Gall'ns of water pumped by Henderson engines.	Gall'ns of water pumped by Worthington engines.	GALLONS DISTRIBUTED.		
				Per month.	Average per day.	Each inhabitant per summer per day.
January.....	38,344,300		243,855,300	272,199,600	8,780,632	56.22
February.....	29,716,575	147,796,620	102,701,140	280,214,285	9,682,563	61.94
March.....	31,329,600		249,359,680	280,689,280	9,054,492	58.04
April.....	30,511,050	235,760,084		266,271,134	8,875,704	58.83
May.....	41,881,850		281,028,780	322,706,630	10,409,955	68.73
June.....	42,171,375	55,010,746	222,225,380	319,407,481	10,646,916	68.24
July.....	38,608,275		286,146,740	324,755,015	10,475,968	67.15
August.....	40,229,325		299,319,880	339,549,205	10,953,900	70.21
September.....	38,503,450		280,346,080	318,849,970	10,628,322	68.13
October.....	35,622,075	97,553,141	177,745,940	310,922,056	10,029,743	64.23
November.....	38,158,175		277,121,320	315,389,495	10,509,649	67.38
December.....	40,080,900	5,075,280	320,070,680	374,826,840	12,091,188	77.50
Totals and Average.....	443,668,350	541,795,871	2,738,928,800	3,725,683,621	10,179,461	65.25
						145.23

**SCHEDULE SHOWING THE TOTAL AND AVERAGE QUANTITIES OF
WATER PUMPED EACH YEAR SINCE THE BEGINNING OF
THE WORKS.**

YEARS.	GALLONS DISTRIBUTED.				Per cent. of increase.
	Per year.	Per day.	Each inhabitant per day.	Each consumer per day.	
1857	127,282,285	348,664	7.75	110.68	
1858	142,155,434	398,467	8.37	93.44	11.70
1859	198,284,090	513,107	11.31	91.27	39.45
1860	291,220,351	719,984	14.11	101.57	31.87
1861	322,175,022	881,599	16.32	114.50	23.81
1862	369,673,082	1,012,794	19.47	120.57	14.74
1863	420,790,875	1,152,875	20.97	117.54	12.83
1864	476,114,225	1,300,858	21.68	123.89	12.14
1865	517,261,005	1,417,153	21.80	122.70	8.64
1866	587,372,220	1,609,239	22.35	124.26	13.55
1867	666,369,375	1,907,861	23.85	115.98	18.55
1868	768,786,975	2,106,265	24.77	116.08	10.40
1869	898,936,425	2,462,839	27.36	120.20	16.92
1870	1,126,228,500	3,085,558	30.86	118.20	25.28
1871	1,367,621,100	3,746,907	35.68	124.90	21.43
1872	1,686,370,895	4,607,571	40.07	131.64	22.67
1873	1,869,768,835	5,095,230	43.06	137.71	10.85
1874	2,050,252,910	5,625,150	45.36	141.10	9.65
1875	2,216,775,816	6,073,358	44.00	136.65	8.12
1876	2,399,225,403	6,573,220	49.22	131.28	8.23
1877	2,820,326,074	7,726,920	55.91	142.24	17.55
1878	2,892,946,823	7,925,882	51.13	135.05	2.57
1879	3,455,271,981	9,466,498	62.69	145.61	19.43
1880	3,725,983,021	10,179,461	65.25	145.23	7.82

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1880.

SIDE.	SIZE.	STREETS.	BETWEEN WHAT POINTS.	FEET LAID.	FEET TOTAL.	REMARKS.
North.	30	Division.....	From Y. in Division st., 20 W. of E. L. Water Works lot north-westerly towards old pumping works....	70		
South	30	Division	From Y. just east of south pumping works to W. L. Pearl.....	2319		
East	30	Center.....	From W. curve at Center and Spruce sts. to W. curve at Center and Washington sts.	981		
West	30	Pearl	From W. L. Pearl to N. end of 30 in. curve at Pearl and Spruce.	116		
South	30	Spruce	From 30 in. curve in Pearl to first curve in Center st.	718		
South	30	Superior.....	From valve on Y 41 ft. W. of Merwin east to 55 feet east of Water st.....	729		
South	30	Superior.....	From 16 feet W. of E. curb of Public Square at For- est City House, east to 10 feet E. of W. curb of Public Square near postoffice	513		
East	30	Washington..	From N. curve at Washington and Center sts. to W. curve in West River st	945		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1880—Continued.

SIDE.	SIZE.	STREETS.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	REMARKS.
South.....	30	West River.....	From W. curve in West River and Washington to 30 in. valve on Y near Viaduct.....	515	6888	
East.....	20	Ontario.....	Between 20 and 20 in. mains at Superior st.....	31		
West.....	20	Pearl.....	From 30 to 20 in. T in Pearl and Division sts., south.....	40		
West.....	20	Water.....	From 30 to 20 in. T in Water and Superior, north to 20 to 16 in. reducer 15 ft. S. of N. L. Superior....	50	130	
North.....	16	Franklin ave.....	From E. L. Columbus to valve at Russia st.....	1205		Relaid.
West.....	16	Water.....	From 20 in. to 16 in. reducer 15 ft. S. of N. L. of Superior, north.....	41	1300	
North.....	12	Superior.....	Between 20 in and 8 in. mains in Water, near N. curb of Superior.....	21		
South.....	12	Main.....	From 30 in. to 12 in. T east to 10 ft. E. of Center st.....	20	50	
West.....	8	Columbus.....	From 26 ft. south of hydrant at Moore to N. L. Lorain st.....	190		
North.....	8	Lorain.....	From E. L. Gordon ave. to 64 W. of E. L. Chestnut Ridge st.....	1524		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1880—Continued.

SIDE.	SIZE.	STREETS.	BETWEEN WHAT POINTS.	FEET LAID	TOTAL.	REMARKS.
North.....	8	Main.....	Between 12 in. and 8 in. pipes near E. L. Center st.	13		
South.....	8	Main.....	From E. L. Elm west to 10 ft. of E. L. Center st.	232		Relaid.
East.....	8	Madison ave.	From cross. in Quincy st. to T in Woodland ave.	1948		
North.....	8	Payne ave	From cross. in Perry, east.	332		
South.....	8	Quincy.....	From 18 ft. E. of Ashland to cross. in Madison ave.	3157		
East.....	8	Willson ave.	From hydrant at Julia st. to S. L. Bower st.	1008		
East.....	8	Water.....	From hyd. at Frankfort to 8 in. pipe in Superior st.	344	8838	
East	6	Arlington.....	From hyd 417 S. of Garden St.	506		
South.....	6	Allen.....	" T in Burnham to T in Parkman	616		
West.....	6	Brookfield.....	N. L. Euclid North	8		
East.....	6	Case ave.....	From T in Lake St. north	312		
East.....	6	Case ave.....	" 212 S. of St. Clair to cross in Superior St.	827		
South.....	6	Canal.....	" E. L. Seneca east.	5		
East.....	6	Clifton	" T in Payne Ave. to C. & P. R.	801		
South.....	6	Diamond Park.....	" T in Willson Ave. east to 6 ft east of Willson Av.	39		
West.....	6	Elm.....	" From cross in Main St. to 14 ft. W. of E. L. Wine- low St.	316		4 in. with 6 in. Relaid.

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1880—Continued.

SIDE.	SIZE.	STREETS.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	REMARKS.
West ..	6	Elm	From 14 W. of E. L. Winslow east ..	24		
East	6	Lyman	" T in Mason north	307		
North ..	6	Lake	" T in Case ave. west to 18 ft. of W. L. Case ..	37		
East ..	6	Mechanic	" T in Chatham to Bailey st.	723		
South ..	6	Mason	" E L. Case ave. east to T in McHenry st.	672		
East ..	6	McHenry	" T in Mason st. north	186		
East	6	Newton	" T in Cedar to N. L. Garden st.	762		
South ..	6	Platt	" 185 ft. E. of Carr st. to cross in Madison ave.	631		
East ..	6	Perry	" S. L. Superior to cross in Payne ave.	669		
West ..	6	Petrie	" S. L. Broadway south.	10		
West ..	6	Public Square	" 8 inch pipe in Superior south in front of Forest City House.	194		
South ..	6	Prosser	From cross in Willson ave. east.	61		
East ..	6	Sherbrook	" cross in Superior north.	551		
	6	Solon ..	" T in Warren to T in Trumbull st.	578		
South ..	6	Trumbull	" T in Forest to T in Solon st.	306		
South ..	6	Walton ave.	" cross in Rhodes ave. west ..	33		

SCHEDULE SHOWING THE EXTENSION OF PIPE IN 1880—Concluded.

SIDE.	SIZE.	STREETS.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	REMARKS.
North.....	6	Warren.....	" 10 ft. E. of Forest to T in Solon.....	362		
East.....	6	York.....	" cross in Carroll st. north.....	76	9731	
North.....	4	Aust.....	From T in Pearl to T in Hanover.....	615		
West.....	4	Clive.....	" T in Sibley to T in Cedar ave.....	343		
East.....	4	Duane.....	" S. L. Detroit St. south.....	8		
	4	Train.....	41 Hydrant connections.....	410	1376	
West.....	3	Hickox alley.....	From T in Prospect to N. L. Prospect.....	33	33	
					26880	

SCHEDULE OF PIPE TAKEN UP AND RELAID IN 1880.

DIAMETER OF PIPE TAKEN UP.	DIAMETER OF PIPE RELAID.	STREETS.	BETWEEN WHAT POINTS.	FEET.	TOTAL.	REMARKS.
C. 16.....	16	Franklin ave.....	From E. L. Columbus to valve at Russia st....	1285		
C. 4.....	6	Elm	" cross in Main st. to 14 W. of E. L. Winslow st...	316		
C. 4.....	8	Main	" E. L. Elm west to 10 ft. of E. L. Center.....	232		
C. 8.....	8	Columbus..	" 26 south of hydrant at Moore st. to N. L. Lorain	190	2083	

TOTAL FEET OF PIPE LAID TO DECEMBER 31, 1890.

Diameter of pipe in inches.	36	30	24	20	18	12	10	8	6	4	3
Laid previous to 1880.....	2,000	13,079	9,980	10,844	12,514	8,440	68,078	91,242	273,500	132,463	14,721
Laid in 1880.....		6,896		130	1,336	50		8,838	9,731	1,376	33
Total.....	2,000	19,965	9,980	10,974	13,850	8,490	68,078	100,080	283,231	133,839	14,754
Taken up in 1880.....					1,295			190		908	
Total in use.....	2,000	19,965	9,980	10,974	12,555	8,490	68,078	99,890	281,231	132,931	14,754
					55,474			607,674			

RECAPITULATION.

55,474 feet of supply main equal to..... 10 miles 2,674 feet.

607,674 " distributing main equal to..... 116 " 474 "

663,148 feet of pipe equal to..... 125 miles 3,148 feet.

**SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP
GATES SET IN 1890.**

NO	SIZE.	STREETS.	SIDE.	LINE OF STREET.
1	30 in.			20 feet east of South Pumping Works and 91 feet south of Division st.
	30 "	Division.....	North.	24 ft. W. of E. L. Water Works property and 27 ft., S. of N. L. Division st.
1	30 "	Division.....	South.	37 ft. E. of W. W. property and 34 ft. S. of N. L. Division st.....
1	30 "	Spruce.....	South.	W. L. Center st. and 18 ft. N. of S. L. Spruce st.
1	30 "	Superior.....	South.	6 ft. E. of Water st. and 37 N. of S. L. Superior st.
1	30 "	West River.....	East.	220 ft. N. of Myers and Osborn & Co's Cor. at Viaduct and River.
1	30 "	West River.....	East.	281 ft. N. of Myers and Osborn & Co.'s Corner at Viaduct & River.
7	30 in.	Total 30 in. valves.		
1	20 "	Pearl.....	West.	18 ft. E. of W. L. Pearl and 17 ft. N. of S. L. of Division st.
1	20 "	Ontario.....	East.	8 ft. N. of S. curb of Superior st. and 2 ft. E. of E curb of Ontario st.
1	20 "	Water.....	West.	33 ft. E. of W. L. Water st. and 62 S. of N. L. Superior st.
3	20 in.	Total 20 in. valves.		

**SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP
GATES SET IN 1880—Continued.**

No.	SIZE.	STREETS.	SIDE.	LINE OF STREET.
1	16 in.	Water	West.	N. L. Superior st. and 42 ft. E. of W. L. Water st.
1	16 in.	Total 16 in. valves.		
1	12 "	Division	South	25 ft. E. of W. W. property and 39 S. of N. L. of Division st.
1	12 "	Main	South	19 W. of E. L. Center and 22 N. of S. L. Main st.
1	12 "	Superior	North	49 ft. E. of W. L. Water st. and 19 S. of N. L. Superior st.
3	12 in.	Total 12 in. valves.		
1	8 "	Lorain	North	W. L. Gordon ave.
1	8 "	"	"	W. L. Higgins st.
1	8 "	"	"	E. L. Chestnut Ridge st.
1	8 "	Main	South	E. L. Elm st.
1	8 "	Madison ave	East.	S. L. Quincy st.
1	8 "	" "	"	S. L. Platt s..
1	8 "	" "	"	N. L. Woodland ave.
1	8 "	Payne ave	North	E. L. Perry st.
1	8 "	Quincy	South	E. L. Craw st.
1	8 "	"	"	E. L. Giddings ave.
1	8 "	"	"	E. L. Judson st.
1	8 "	"	"	W. L. Madison ave
1	8 "	Willson ave	East.	S. L. Bower st.
1	8 "	Water	"	N. L. Superior st.
14	8 in.	Total 8 in. valves.		
1	6 "	Allen	South	W. L. Burnham st.
1	6 "	"	West.	S. L. Parkham st

**SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP
GATES SET IN 1880—Concluded.**

NO.	SIZE.	STREETS.	SIDE.	LINE OF STREET.
1	6 in.	Case ave	East.	N. L. Superior st.
1	6 "	"	"	N. L. Lake st.
1	6 "	Clifton.....	"	N. L. Payne ave.
1	6 "	Diamond Park st.....		E. L. Willson ave.
1	6 "	Elm.	West.	S. L. Winslow st.
1	6 "	Lyman	East.	N. L. Mason st.
1	6 "	Mechanic	"	N. L. Bailey st.
1	6 "	McHenry	"	N. L. Mason st.
1	6 "	Newton.....	"	S. L. Cedar ave.
1	6 "	"	"	N. L. Garden st.
1	6 "	Platt	South.	W. L. Madison ave.
1	6 "	Perry	East.	N. L. Payne ave.
1	6 "	Public Square.....	West.	S. L. Superior st.
1	6 "	Prosser.....	South.	E. L. Willson ave.
1	6 "	Sherbrook.....	East.	N. L. Superior st.
1	6 "	Solon	West.	S. L. Trumbull st.
1	6 "	Trumbull.....	South.	E. L. Forest st.
1	6 "	Walton ave.....	"	W. L. Rhodes ave.
1	6 "	Warren	North.	W. L. Solon st.
1	6 "	York.....	East.	N. L. Carroll st.
22	6 in.	Total 6 in. valves.		
1	4 "	Aust	North.	W. L. Pearl st.
1	4 "	"	"	E. L. Hanover st.
1	4 "	Cleve	West.	S. L. Sibley st.
1	4 "	"	"	N. L. Cedar ave.
1	4 "	Public Square.....	"	102 S. of Superior st. and 31 ft. E. of W. line in front of Forest City House.
5	4 in.			
41	4 "	For fire hydrants.		
46	4 in.	Total 4 in. valves.		

RECAPITULATION OF STOP GATES FOR 1880.

Water way in inches....	36	30	24	20	16	12	10	8	6	4	3	
Set previous to 1880.	1	15	7	14	19	15	90	161	562	949	257	2110
Set in 1880.....	..	7	...	8	1	3	....	14	22	46	.....	96
Total	1	22	7	17	20	18	90	175	604	995	257	2206
Taken out in 1880. ....	.....	.....	.....	.....	.....	..	.....	.....	.....	.....	1	1
Total in use	1	22	7	17	20	18	90	175	604	995	256	2205

SCHEDULE SHOWING LOCATION OF FIRE HYDRANTS SET IN 1880.

No.	SIZE.	STREETS.	FEET.	LOCATION.	SIDE.
1	4 in.	Aust	265	W. of Pearl	South.
1	4 "	Arlington	1122	S. of Garden	East.
1	4 "	Allen	278	W. of Burnham	South.
1	4 "	Cass ave.	271	N. of Superior st.	East.
1	4 "	"	346	S. of St. Clair	"
1	4 "	"	20	N. of S. L. of King st.	"
1	4 "	Clifton	355	N. of Payne ave.	"
1	4 "	"	765	" " "	West.
1	4 "	Elm	8	E. of Winslow st.	South.
1	4 "	Lyman	125	N. of Mason st.	East.
1	4 "	Lorain	262	W. of Gordon ave.	North.
1	4 "	"	140	W. of Higgins st.	"
1	4 "	"	300	E. of Chestnut Ridge st.	"
1	4 "	"	94	W. of E. L. Chestnut Ridge st.	"
1	4 "	Madison	8	S. of N. L. Keys st.	East.
1	4 "	"	40	N. of Townsend st.	"
1	4 "	"		On N. L. Platt st.	"
1	4 "	"	352	S. of Platt st.	"
1	4 "	"	20	N. of Woodland ave.	"
1	4 "	Mechanic	279	S. of Chatham st.	"
1	4 "	"		At N. L. Bailey st.	"
1	4 "	Mason	251	E. of Lyman	South.
1	4 "	Newton	14	N. of Garden st.	East.
1	4 "	"	372	S. of Cedar ave.	"
1	4 "	Platt	344	W. of Madison ave.	South.
1	4 "	Perry	341	S. of Superior st.	East.
1	4 "	Payne ave.		E. L. Perry st.	North.
1	4 "	"	334	E. of Perry st.	"
1	4 "	Quincy	20	W. of Baden ave.	South.
1	4 "	"	10	W. of Craw st.	"

SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET
IN 1880—Concluded.

No.	SIZE.	STREETS.	FEET.	LOCATION.	SIDE.
1	4 in.	Quincy	10	W. of E. L. Giddings ave.	South.
1	4 "	"	16	W. of Judson st. .	"
1	4 "	"	7	W. of Lussenden st.	"
1	4 "	"	13	W. of Madison ave.	"
1	4 "	Sherbrook	507	N. of Superior st.	East.
1	4 "	"	224	" " "	"
1	4 "	Solon	214	S. of Trumbull st.	West.
1	4 "	Trumbull	87	W. of Solon st.	South.
1	4 "	Warren	4	" "	North.
1	4 "	Willson ave.	10	N. of Bower st.	East.
C 1	4 "	West River		At Myers & Osborns, changed from 3 in. to 4 in.	
41	4 in.	Set in 1880.			
968		Total hydrants in use Dec. 31, 1879.			
999		Total.			
1		Hydrant changed at Myers & Osborns.			
998		Total number of hydrants in use Dec. 31, 1880.			

INVENTORY OF OFFICE STOCK.

5 Desks.....	2 Service pipe record books.....
4 Tables.....	2 Books of pipe record and engine duty.....
1 Safe.....	1 Record book of pipe in the different wards.....
1 Rack or cupboard for books, blanks and papers.....	1 Letter scale.....
2 Office counters and fixtures....	1 Level.....
2 Office partitions.....	1 Transit.....
1 Marble front grate.....	1 Level rod.....
1 Wash bowl with marble base and spatter board.....	2 Pickets.....
1 Clock.....	2 100 ft. chains.....
7 Pictures and frames.....	1 Abstract book.....
58 Yards carpeting, poor.....	Books—Cash, ledger, transfer, meter and permit.....
84 “ linoleum, poor.....	1 Cupboard for papers and reports
95 “ matting, poor.....	4 Waste paper baskets.....
2 Large chandeliers.....	Maps, plans of machinery, boilers, buildings, etc.....
1 Tee chandelier.....	1 Bureau of drawings.....
3 Drop lights.....	8 Drawing boards.....
8 Single light brackets.....	7 Lbs. Muslin backed engrs. paper.....
2 Stools.....	22 Lbs. 43 in. manilla paper.....
1 Large drawing table.....	4 Lbs of 43 inch drawing paper..
1 Base burner stove.....	3 Map books showing service connections.....
2 Yards vellum.....	
1 Time roll book.....	
1 Stub book for maps.....	
1 Barometer.....	
4 Large maps.....	

INVENTORY OF MISCELLANEOUS STOCK ON HAND IN YARD AT OFFICE.

5 4 inch wood hydrants.....	9 Covers for valve boxes.....
1 6 in. wood hydrant.....	31 Plates for No. 1 valve boxes..
1 8 " dip pipe.....	12 " " 3 " "
2 6 " dip pipes.....	6 Plates for No. 2 valve boxes..
4 6 " tees.....	6 8 in. cylinder valve box cover.
3 6 to 4 inch tees.....	2 6 " " " " "
1 4 inch bend.....	9 Top pieces for cyl. val. boxes..
1 4 inch elbow.....	2 3 in. gas tees.....
3 8 to 6 reducers.....	2 4 " "
5 8 to 4 "	1 8 " sprinkler tee.....
16 6 to 4 "	2 10 in. " "
2 10 to 4 "	1 10 to 6 in. tee.....
1 4 to 3 "	1 6 in. valve.....
1 6 in. sprinkler tee	1 Furnace and kettle for heating
1 4 " " "	water.....
9 4 " sleeves.....	1 8 in. cross.....
6 3 " "	3 Bottom cyl. for manning hyd.
10 6 " "	2 24 in. sleeves.....
2 8 " "	10 Pieces 4 in. pipe from 2 to 4 in
3 10 " "	long
2 6 " reversed curves.....	3 3 in. pipe.....
1 4 " " "	1 4 "
5 6 " elbows	9 6 "
5 6½ " bends.....	1 6 " 6 feet long, plain...
4 3½ " "	1 8 "
1 3 " elbow.....	1 8 " 5 feet long.....
2 3 " valves and goose necks..	4 Furnaces for melting lead....
7 Bottom frames for valve boxes	3 Grates for furnaces.....
8 Top " " " "	3 Lead pots.....
7 Extra top " " " "	1 Meter box 3x2-6 inches.....
1 10 to 6 in tee.....	

INVENTORY OF MISCELLANEOUS STOCK AND MATERIAL IN BASEMENT AT OFFICE.

1 Hatchet.....	7 S wrenches.....
1 Drawing knife.....	1 2 ft. square.....
1 Jack plane.....	1 50 ft. tape line.....
3 Wood chisels.....	5 Steel crow-bars.....
1 Brace with 8 bits and screw- driver.....	7 Picks.....
5 Lbs. brass and copper wire...	10 Lbs nails.....
11 Lbs. rubber packing.....	1 Axe.....
5 Screw-drivers.....	1 Adze.....
1 Gimlet.....	2 Sledges.....
4 pair pliers.....	1 1½ inch augur.....
8 Files, different sizes.....	2 Tool bags.....
1 Oil stove.....	1 Lot of small tools for manning hydrants.....
1 File brush.....	1 Set of stock and dies 2 to ¼ in.
4 Sheets emery paper.....	1 Set of stock and dies 1 to ¼ in.
1 Meter drill and punch.....	2 Pair 3 inch tongs.....
1 Pair compasses.....	3 Pair 1 inch tongs.....
1 Pair callipers.....	2 Pipe cutters.....
2 Counter sinks.....	1 Standard 2 inch hose coupling for sprinklers.....
4 Doz. meter screws.....	4 Alligator pipe tongs 3 to ½ in.
2 Hack saws.....	78 Paper packings for water met
3 Taps, different sizes.....	1 Force pump.....
10 Brass stems for meter ratchet.	4 Balls of twine.....
8 Jets for testing meters from 11-16 to 1-2 inches.....	2 Lanterns.....
1 Machinists hammer.....	9 Red glass lantern globes.....
1 Claw hammer.....	2 Torch Lamps.....
2 Caulking hammer.....	W Wood hydrant wrenches.....
10 " tools.....	1 Wood hydrant wrench for stuff- ing box.....
2 " " with handles...	1 Wood hydrant wrench for valve seat.....
5 Cold chisels.....	2 Street sprinkler wrenches....
3 Diamond pointed chisels.....	5 Oil cans.....
2 Cold sets.....	1 Hand-saw.....
3 Monkey wrenches, different sizes.....	12 Rubber packings for meter spin- dles.....
1 Washer Cutter.....	
1 Set Reducing Couplings, from 2 to 3-4 in.....	

INVENTORY OF MISCELLANEOUS STOCK AND MATERIAL IN BASEMENT AT OFFICE.

Continued.

1 Funnel.....	1 Set of tapper tools for cement
2 Red light lanterns.....	pipe.
1 15 gallon oil can.....	5 1 in. ferules for cement pipe..
1 Grindstone.....	2 1 in. ferules for iron pipe.....
1 Large key wrench.....	2 $\frac{3}{4}$ in ferule for cement pipe...
2 Hose wrenches.....	1 30 in. wrench.....
1 Stuffing-box wrench for Cin-	1 16 in. lever wrench.....
cinnati hydrant.....	1 6 in. lever wrench.....
1 Die for manning hydrant.....	3 6 " "
2 Steel jimmies.....	3 3 " "
2 C. W. W. brands.....	1 4 " "
1 Chain for wood hydrant . . .	1 3 in. stop cock.....
16 Ft. $\frac{3}{4}$ block-tin pipe with fun..	1 Hydrant claw wrench.....
7 Center Covers for cyl. val. box.	1 Globe valve "
1 Large S wrench.....	1 Air cock "
24 Steady washers.....	1 Pet Cock "
10 3 inch hydrants.....	2 Ice bars
8 Picks.....	1 Pair grappling tongs.....
2 Furnace grates.....	1 Pair rubber boots.....
10 Lbs. of yarn.....	8 Yards duck cloth.. ..
2 Lead ladles.....	1 Combination vise with movable
4 Derrick handles.....	jaws.....
3 Brown valves, poor.....	2 Pairs of scales... ..
8 Wheelbarrows.....	300 Lbs. of lead.....
1 Folding derrick.....	1 Barrel of cement.....
1 Pair differential blocks & chain.	1 Barrel of salt
4 Pipes for meter tests.....	300 Ft. of 2 in. hose for puddling
84 $\frac{3}{4}$ ferules for cement pipe.....	purposes, poor.....
183 $\frac{3}{4}$ brass ferules.....	1 Large step-ladder
251 $\frac{3}{4}$ brass ferules.....	1 Wheelbarrow.....
332 No. plates.....	1 3 in. Worthington meter....
4 Sets of tapper clamps from 3	3 2 " " "
to 12 inches.....	2 1 $\frac{1}{2}$ " " "
2 Sets of tapper tools.....	1 1 $\frac{1}{2}$ " " "
1 marking pot and brush.....	12 lbs. of white lead.....

INVENTORY OF MISCELLANEOUS STOCK AND MATERIAL IN BASEMENT AT OFFICE.

Continued.

6 1 in. Worthington meters.....	13 1½ in. sockets
7 ½ " " "	35 ½ nipples from 2 to 8 in
2 1 in. Crown meters.....	43 1 in. nipples from 2 to 12 in...
4 ½ " "	30 ½ sockets.....
2 1 in. B and F rotary meters..	31 1 in. sockets.....
2 ½ " " "	20 ½ in. unions.....
2 ½ " " "	14 1 " "
2 ½ in. B and F piston meters..	6 1½ " "
1 ½ Barton & West meter.....	7 1½ " "
2 3 in. Worthington meter dials,	19 2 " "
(pins).....	9 2 in. elbows.....
1 2 in. W. meter dials (pins)...	18 1½ " "
3 1½ " " "	8 1½ " "
3 1 " " "	46 1 " "
1 2 " " (screws)....	53 ½ " "
1 1½ " " "	13 2 in. tees.....
1 1 " " "	7 1½ in. tees.....
4 ½ " " "	2 1 in. crosses.....
1 Counter plate and R move-	6 1 in. tees
ment 3 in. meter.....	26 ½ "
1 Counter plate and R move-	5 Reducing couplings 2½ to 2 in.
ment 1½ in. meter.....	4 " " 2 to 1½ in.
1 Counter plate and R move	6 " " 2 to 1½ in.
ment 1 in. meter.....	3 " " 1½ to 1½ in.
3 Counter plates and R move-	5 8 in. plugs, wood.....
ment ½ in. meter.....	6 6 " "
32 Caps for ½ meters.....	30 4 " "
3 Meter caps.....	17 3 " "
1 Water pressure gauge and flx-	1 Set of Bailey's patent blocks..
tures.....	4 Pair of pipe chains.....
20 Reducing couplings from 1 to ½	1 Set of rope for pipe laying....
41 2 in. nipples from 2½ to 9 in.	2 Screws for 30 in. valve.....
long	18 Picks.....
17 1½ nipples from 4 to 12 in. long	4 Water pails.....
28 2 in. sockets.....	1 50 ft. tape line.....

INVENTORY OF MISCELLANEOUS STOCK AND MATERIAL IN BASEMENT AT OFFICE.

Continued.

1 Wood hydrant wrench.....	1 Sledge hammer.....
1 Set caulking tools, 3 pieces..	1 Cold set.....
2 Caulking tools with handles..	1 Tool box.....
2 Cold chisels.....	28 Picks.....
1 Cape.....	1 Axe.....
1 Hammer.....	1 Hand saw.....
2 Yarning tools.....	2 Capstan bars.....
1 Cold set.....	1 Lead ladle.....
20 Lbs. of yarn.....	3 Water pails.....
2 8 in. plugs.....	270 Lbs. of lead.....
4 8 in. clamps.....	55 Lbs. packing.....
2 6 in. clamps.....	1 50 ft. tape line.....
1 C. W. W. brand.....	2 Caulking hammers.....
1 Pig of lead.....	9 Cold chisels.....
1 Doz. 5 in. wood screws.....	10 Caulking tools.....
1 Axe.....	4 Caulking tools with handles...
1 Hand saw.....	5 Cold sets.....
1 Furnace complete with pot and hook.....	3 Reducing couplings 1½ to 1 in.
1 Lead ladder.....	12 1 in. plugs.....
3 Lamp posts.....	4 1½ in. plugs.....
1 1½ bushel basket.....	1 1½ in. plugs.....
4 Right and left couplings from 2 to ½ inches.....	1 2 in. plug.....
4 Right hose couplings.....	4 1 in caps.....
1 Hose coupling from 2½ to 2 in.	1 ½ ".....
2 1½ augurs, long shanks, cranks	2 ¾ plugs.....
3 Screws for 6 in. wood hyd....	6 1 in. right and left couplings..
2565 Lbs. brass scrap.....	8 ¾ " " " " ..
2 Capstan bars.....	3 Bushings from 3 to 2½.....
2 Pipe ropes.....	1 " " 3 to 2 in.....
1 Set caulking tools, 4 pieces....	7 " " 2 to 1½ in.....
1 Chisel.....	11 " " 1½ to 1 in.....
1 Hammer.....	2 " " 1½ to 1 in.....
1 Yarning tool.....	1 " " 2 to 1 in.....
4 ½ in. caps.....	12 " " 1 to ¾ in.....
	1 3 in. elbow.....

INVENTORY OF MISCELLANEOUS STOCK AND MATERIAL IN BASEMENT AT OFFICE.

Concluded.

1 Bushing 2½ to 2 in.	57 Lbs. of extra strong ½ in. lead
3 Reducing coupl's from 3 to 2½.	pipe
1 " " " 3 to 2..	53 Lbs. of strong ½ in. lead pipe..
2 3 in. couplings	1 Screw for 6 in valve.....
1 3 in. cap.....	1 Screw for 4 in valve.....
1 3 in. nipple 2 ft.	4 Pair 3 in. meter flanges.....
3 2 in. reversed curves	1 Sprinkler hydrant with hose
4 1½ " "	connections.....
5 1 " "	14 Lbs. of sheet lead.....
14 Feet of ½ in. pipe in pieces...	6 Pounders
2 Pieces ½ in. pipe 8 ft. long....	2 Mauls
4 2 in. globe valves.....	1 Solder pot and ladle.....
48 ft. of 1 in. pipe.....	6 12 in. wood plugs.....
48 Ft. of 2 in. pipe.....	3 10 in. wood plugs....
21 Ft. of 1½ in. pipe.....	2 Sledge hammers.....
8 Ft. of 1½ in pipe.....	1 Monkey wrench.....
2 Long handle shovels.....	1 ½ gallon oil can.....
1 Tunneling shovel.....	1 C. W. W. brand.....
2 Snow shovels.....	62 Ft. 5 in. of ¾ chain with hooks.
1 Spoon shovel.....	30 Ft. 6 in. of ¾ chain, no hooks.
2 Capstan bars.....	34 Ft. of ¾ chain with hooks ...
20 Pails, good and poor.	12 Ft. 7 in. of ¾ chain, one ring..
1 4 in. cast elbow.....	6 Ft. of ¾ chain, hook & ring...
6 6 in. clamps.....	12 Ft. 9 in. chain, ring on one end
8 10 in. clamps.....	1 Water dipper.....
5 8 in. clamps.....	2 Yarning tools
6 Pair 4 in. wrought clamps com-	1 6 in wrench.....
plete.....	2 Diamond pointed chisels.....
3 Pair 4 in wrought clamps with-	2 ½ in round gouges.....
out cross bars....	15 Ft. 4 in. of ¾ chain with hooks.
4 Pair 6 in. wrought clamps,	21 " " slip liuks..
complete	10 Ft. of ¾ ch., 3 pieces to 1 ring
3 Pair 6 in. wrought clamps with-	1 Pair of timber grappling hooks
out bars or hooks.....	
1 Pair 8 in wrought clamps with-	
out bars or hooks.....	

INVENTORY OF ENGINE HOUSE YARDS.

1 30 in. pipe 5 feet 6 inches with socket.....	1 Sewer pipe 9 inches diameter. curve.....
1 30 in. p. 3 ft. with sock.	1 Oak timber 12x6 in. 20 ft....
1 30 " 2 ft 4 in. "	1 Pine " 12x12 in. 21 ft. 6 in.
1 30 " 4 ft. 2 in. "	1 Hemlock 10x14x31.....
2 24 " 2 and 6 ft. "	2 " 10x14x22.....
2 36 in. pipe.....	3 " 10x12x11....
7 30 "	1 " 12x12x14.....
1 24 "	1 Large derrick.....
1 24 " 9 ft.....	1 Small derrick....
3 36 in. sleeves.....	1 24 in. wrought iron pipe 40 ft. long.....
1 36 in. reduced sleeve.....	1 24 in. wrought iron pipe 26 ft. long.....
1 30 to 24 in. reducer.....	1 24 in. wrought iron pipe 20 ft. long.....
2 24 in. sleeves, reduced.....	
26 Sewer pipe 18 in. diameter....	
7 " 12 "	

INVENTORY OF PUMPING WORKS.

19 Fathoms 3 in. rope.....	64 Extra valve weights for Worth-
26 " "	ington pump.....
22 " "	4 Extra rubber valves for Hen-
9 " 2½ "	derson engine.....
39 " 4½ "	12 Gage cocks for Cornish boilers
15 " 4½ "	2 10 in. stop valves.....
26 " 3½ "	8 4½ in feed valves.....
28 " 3½ "	1 50 gallon oil tank.....
66 " 6 "	1 60 gallon oil tank.....
11 " 3½ "	3 Carbon oil cans (tin).....
4 Small derricks.....	2 12x12 pine timber 30 ft. long..
1 Pulley for screens.....	2 10x12x25 ft. pine timbers....
1 Well scoop.....	25 Lbs. ½ in. sheet rubber.....
2 Ladles.....	2 Yds. sheet rubber.....
24 Sections of aqueduct gate....	9 Chairs, 1 lounge.....
1 Pile driver ram.....	1 Tin oil pump.....
1 Lawn mower.....	1 Brass syringe.....
1 Lawn rake.....	1 Tin syringe.....
1 Lawn sickle.....	2 Reamers.....
2 Steel crowbars.....	20 Pairs eye bolts.....
2 Extra valves for Cornish eng..	28 Socket wrenches.....
10 Lbs. cotton waste.....	2 Key wrenches.....
100 Hemp packing.....	1 Stock and 4 dies.....
800 Lbs. tallow.....	1 Stock and 2 dies.....
30 Gallons coal oil.....	4 Screw taps.....
40 Gallons Mecca oil.....	8 Tap wrenches.....
½ Barrel valvoline.....	5 Claw wrenches.....
3 Gallons lard oil.....	5 Valve wrenches.....
½ Gallon linseed oil.....	2 Writing desks.....
5 Lbs. Soap.....	1 Stand.....
10 Lbs. patent grease for journals	2 Drawing tables.....
11 Patent grease cups.....	8 Arm chairs.....
50 Ft. 2 in. rubber hose.....	4 Common tables.....
50 Ft. 2 in. leather hose, bad....	1 Book-case with drawers.....
64 Extra valves for Worth. pump	3 Cupb'rds with lockers for tools
1 stock and 1 die.....	

INVENTORY OF PUMPING WORKS—*Continued.*

1 Engine indicator complete....	1 Small grocers scale.....
2 Thermometers	1 Portable engine and boiler....
1 Barometer.....	1 Centrifugal pump and suction pipes.....
1 Carpenter's work bench.....	1 Portable forge.....
1 Jack plane.....	2 Anvils
1 Moulding plane.....	1 Hand hammer.....
1 Iron square.....	2 Pairs tongs.....
1 Grindstone	3 Copper hammers.....
3 Coal barrows, bad order.....	5 Monkey wrenches.....
1 Portable geared drill.....	3 Pairs gas tongs (patent).....
1 Oil stove.....	4 Pairs gas tongs.....
1 Hand axe.....	1 Pair 8 in. blocks.....
2 Pairs compasses	1 Pair 6 in. blocks.....
2 Braces and drills.....	2 Single 17 in. blocks.....
3 Vises and benches.....	1 Single 14 "
1 Hand vise, 1 portable vise....	1 Double Block.....
1 1½ gouge.....	5 Double 14 in. blocks.....
1 3 gallon tin measure.....	4 Double 10 in. blocks.....
2 1 " "	1 Set small watch blocks & fall.
2 1 quart tin measure.....	2 Double 18 in. iron blocks.....
2 Tin tallow kettles.....	2 Screws for pump valves.....
1 Large rendering kettle.....	1 Piston rod clamp.....
2 Tin Funnels.....	1 Brass val. for cold water pump
5 Stoves.....	1 Extra Cornish main pump val.
4 Coal scuttles.....	1 Blank flange for stand pipe...
2 Stove shovels.....	1 Hose carriage for lawn hose...
1 Drill post.....	10 Cold and cape chisels.....
1 Lifting screw and ratchet....	2 Gas lighters
2 Hack saws, 3 sledges.....	2 Dust pans.....
1 Steelyard scales, 2,000 lbs	100 Extra bolts for general use. ..
1 Platform scale, 600 lbs.....	1 Barrel water lime.....
1 Set of steel figures.....	1 Book slate.....
4 Chandaliers.....	1 Match safe.....
2 Portable gas burners.....	1 Doz. ¼ water Gage glasses.....
3 One minute glasses.....	

INVENTORY OF PUMPING WORKS—*Concluded.*

2 Picks	6 Slates
1 Dark lantern	3 Cornish boilers 30 ft. long
3 Chipping hammers	50 Extra bolts for Cornish pumps
1 Knife and frame	1 Hat rack
3 Record books	4 Iron spittoons
1 Brace and 8 bits	4 50 lb. weights
4 Water buckets	2 Steam flue cleaners ..
7 Iron rustic chairs	20 Ft. of hose for cleaners
2 Extra safety-valves	1 Handbarrow
2000 old red brick	75 Ft. of chain
1 Doz. assorted files	8 Caulking tools
2 Fire room shovels	1 Account book
1 8 day clock and case	2 Screw drivers
2 Lanterns	1 hand-saw
10 Lbs. rubber backed packing ..	4 Step ladders
1 Lb. copper wire	5 Ladders
6 Doz. $\frac{1}{4}$ copper washers	1 4 $\frac{1}{2}$ in. blow-off cock
6 Hand lamps	1500 old fire brick
4 Squirt cans	200 tons of slack coal, estimated.
4 Oil cans	4 Brooms

INVENTORY AT RESERVOIR.

1 Lawn mower.....	3 16 in. p. from 3 to 5 ft. with
3 Lawn rakes.....	socket
1 Hand-saw.....	3 12 in. pipe.....
2 Garden hoes.....	3 12 in. from 3 to 8 ft. with soc.
1 Sickle.....	1 12 in pipe 5 ft. 5, plain.....
1 Claw hammer.....	10-10 in. pipe.....
1 Monkey wrench.....	1 10 in. p. 9 ft. long with socket
1 Axe.....	1 10 in. p. 10 ft. with socket....
1 Shovel	2 10 in. p. from 5 to 8 ft., plain
1 Scythe, poor.....	15 6 in. pipe.....
1 Wheelbarrow, poor.....	47 Ft. of 6 in. pipe from 3 to 10
50 Ft. 1/2 in. hose, poor.....	ft. long with socket
1 Grindstone.....	36 Ft. of 6 in. pipe from 8 to 11
1 Pail	ft., plain.....
1 Oil can.....	18 Ft. 8 in. pipe.....
1 6 in. wrench.....	24 Ft. 8 in. pipe from 6 to 9 ft.
1 20 in. lever wrench.....	long with socket.....
1 30 in. lever wrench.....	46 Ft. of 8 in. p. from 5 to 8 ft.
1 36 in. pipe.....	long, plain.....
1 20 in. pipe 11 ft. 9 with socket.	7 16 in. bend pipes.....
1 " " 4 ft. 8 " "	4 4 in. pipe.....
1 30 " 9 ft. " "	45 Pieces 4 in. p. from 4 to 6 ft.
1 " 6 ft. 6 " "	long with socket.....
1 " 3 ft. 3 " "	2 Pieces 4 in. p. from 6 to 10 ft.
2 30 in. bend pipes.....	long, plain.....
2 30 in. bend pipes 4 ft. plain...	30 Pieces 4 in. p. average 9 ft...
1 24 in. pipe 10 ft. 4 with socket	1 10 to 8 in. cross.....
3 24 " " " "	1 8 in. cross.....
1 24 in. pipe 9 ft. 10 with socket	6 4 "
1 20 in. pipe 9 ft. old style.....	4 6 "
1 20 " " " "	2 8 to 4 in. tees.....
1 20 in. pipe 9 ft. 6 with socket.	1 6 in. tee.....
1 20 in. cross.....	1 4 in. tee.....
1 20 in. pipe 3 ft. with socket..	1 8 in. tee.....

INVENTORY AT RESERVOIR—*Continued.*

2 10 to 6 in. tee.....	5 8 $\frac{1}{4}$ bends.....
1 10 to 8 in. tee.....	3 6 $\frac{1}{4}$ bends.....
1 12 in. cross.....	2 8 in. elbows.....
11 10 to 6 in. reducers.....	1 3 in. bend.....
4 12 to 6 ".....	4 8 in. elbows.....
14 8 to 6 ".....	2 4 in. elbows.....
1 10 to 6 ".....	4 4 $\frac{1}{4}$ in. bends.....
1 10 to 8 ".....	1 16 to 8 in. reducer.....
1 12 to 8 ".....	1 36 to 24 in. reducer.....
1 12 to 10 ".....	1 4 in. valve.....
3 6 to 4 ".....	1 3 ".....
2 8 to 4 ".....	1 24 ".....
5 4 to 3 ".....	8 Pcs. 3 in. fr. 6 to 8 ft. lg. Sockets
4 30 in. sleeves.....	8 Top frames for valve boxes...
3 24 ".....	2 Bottom frames for valve boxes.
4 20 ".....	4 Covers for valve boxes.....
5 12 ".....	11 Plates for valve boxes.....
6 10 ".....	1 Large derrick.....
1 6 ".....	4 Pipe plank 3 in. oak.....
5 4 ".....	2 Tops for cyl. valve box.....
2 3 ".....	2 Cyl. valve boxes.....
3 Pair 36 in. clamps.....	30 16 in. cement pipe scrap.....
4 " 30 ".....	1 Top and base for hitching post
3 " 24 ".....	1 6 in. y pipe.....
1 " 20 ".....	Tons scrap iron.....
5 " 16 ".....	1 Tool box.....
1 24 in. socket clamps.....	1 Pair blocks and rope for pipe
1 16 " ".....	laying.....
1 36 " ".....	1 Crowbar.....
3 6 in. reverse curves.....	1 Ladle.....
2 4 " ".....	2 Pipe chains.....
1 10 $\frac{1}{4}$ bend.....	

ABSTRACT OF EXPENDITURES FOR 1880.

FEBRUARY—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine Ex- penses.	Engine Re- pairs	Lake Crib.	Water Meters.	New Boil- er House.	New En- gines.	Construc- tion.	Total.
People's Gas Light Co....	Gas.....	.....	.....	.....	22 13	.....	.....	.....	.....	.....	.....	22 13
Philip Platten.....	Flagging Franklin ave	.....	57 03	.....	.....	.....	.....	.....	.....	.....	.....	57 03
P. Ryan.....	Cartage.....	.....	20 00	75	.....	.....	.....	.....	.....	.....	.....	20 75
A. F. & H. Strater....	Pig Lead.....	156 90	.....	.....	.....	.....	.....	.....	.....	.....	.....	156 90
J. Stovering.....	Repair work.....	.....	2 90	.....	.....	.....	.....	.....	.....	.....	.....	2 90
Short & Foreman.....	Stationery.....	.....	.....	22 83	.....	.....	.....	.....	.....	.....	.....	22 83
H. Stegmeier.....	Packing and twine ..	15 30	2 85	.....	.....	.....	.....	.....	.....	.....	.....	18 15
Frank Straus.....	Short-hand report ..	.....	.....	144 00	.....	.....	.....	.....	.....	.....	.....	144 00
Strong, Cobb & Co....	Oil.....	.....	.....	.....	.....	1 76	.....	.....	.....	.....	.....	1 76
H. Worthington.....	Water meters.....	.....	.....	.....	.....	.....	.....	91 64	.....	.....	.....	91 64
Jas. Cahill.....	Brooms.....	.....	.....	.....	3 25	.....	.....	.....	.....	.....	.....	3 25
		1,360 41	2,297 75	3,156 60	4,214 23	4 76	20 00	91 64	.....	.....	.....	11,154 30

ABSTRACT OF EXPENDITURES FOR 1880.

MARCH.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Construc- tion.	Total
Pay rolls.....	Labor.....		305 80	1,542 46	1,218 86							3,067 12
R. W. Abram					18 90							18 90
Beldier & Nicola.....	Coal.....			9 50								9 50
W. Bingham & Co.....	Hardware.....			2 25								2 25
F. & H. Born	Charcoal		1 85									1 85
S. E. Brooks & Co.....	Meter boxes, etc.....			51 75								51 75
H. P. Card.....	Coal.....				746 67							746 67
Calkins and Co	Lime			80								80
City of Cleveland	Paving Franklin ave.....		408 05									408 05
City of Cleveland	Repair of pavement.....		15 53									15 53
Cleveland Gas Co.....	Gas			3 13								3 13
Cleveland Scale Works.....	Repair of scales.....		25 00									25 00
E. Cushing	Rent			206 67								206 67
George Dennon.....	Mason work.....			41 79								41 79
James Farnan	Brass work.....			2 85								2 85

ABSTRACT OF EXPENDITURES FOR 1880.

MARCH—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Constu- tion.	Total.
Globe Iron Works.....	Iron work.....				2 03							2 03
Leader Printing Co.....	Printing report.....			44 00								44 00
Leader Printing Co.....	Advertising.....	11 63										11 63
R. T. Lyons.....	Cement.....		2 40									2 40
Thomas Manning, Jr.....	Machine work.....		48 04									48 04
W. H. Parkin & Co.....	Recutting files.....				7 86							7 86
J. B. Savage & Co.....	Permit book.....			12 18								12 18
Spith & Connors.....	Repairing st. washer.....		1 25									1 25
J. Stovering.....	Blacksmith.....		16 95									16 95
Strong, Cobb & Co.....	Paints and oils.....			4 25								4 25
Union Water Meter Co.....	Water meter.....							61 00				61 00
H. R. Worthington.....	Repairing meter.....			18 63								18 63
		1,381 04	3,182 62	5,156 77	6,208 55	4 76	20 00	152 64				16,106 38

APRIL.

[illegible]

ABSTRACT OF EXPENDITURES FOR 1880.

APRIL—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	(Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New Engines.	Construc- tion.	Total.
Forest City Brass Works	Ferules			26 00								26 00
L. Katzenstein & Co.	Packing					13 67						13 67
W. Kauffman & Co.	Advertising			4 00								4 00
Lake Shore Foundry.	Pipe, &c.	2,221 37										2,221 37
Leader Printing Co.	Stationery and adv.			13 75								13 75
H. W. Luetkeneyer.	Casting for lawn mower		1 00									1 00
Lord, Bowler & Co.	Valves	61 50										61 50
R. T. Lyon.	Cement		2 40									2 40
Lyon & French.	Tool bag			6 00								6 00
T. Manning, Jr., & Co.	Repairs		20 27									20 27
J. J. McEvoy.	Plumbing			19 06								19 06
Meriam & Morgan.	Oil				5 88							5 88
W. J. Morgan & Co.	Stationery			18 50								18 50
People's Gas Light Co.	Gas.				41 38							41 38
Platin Dealer Pub. Co.	Advertising			3 34								3 34

ABSTRACT OF EXPENDITURES FOR 1880.

APRIL—Continued.

BILLS RENDERED BY.	FOR.	Pipe Rx-tension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	Lake Crib.	Water Meters.	New Boiler House.	New Engines.	Construction.	Total.
Purdy & McNell.	Lumber.		84 40									84 40
Short & Foreman.	Water color.			35								35
A. F. & H. Strater.	Pig lead.	152 02										152 02
Strong, Cobb & Co.	Soap.			72								72
Union Water Meter Co.	Repairs.		6 50									6 50
Waechter am Erie.	Advertising.			4 00								4 00
J. B. West.	Water meter.							15 00				15 00
H. R. Worthington.	Water meter.							341 25				341 25
Henry Landreth.	Damages.			102 00								102 00
		4,078 02	3,713 98	6,915 08	8,265 81	18 43	20 00	508 88				22,520 21

ABSTRACT OF EXPENDITURES FOR 1880.

MAY—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Re- pairs.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Construc- tion.	Total.
Leader Printing Co.	Printing notices.			9 75								9 75
Lord, Bowler & Co.	Valves	61 75	5 75									67 50
Manning & Co.	Repair work	15 00	27 90									42 90
People's Gaslight Co.	Gas				14 26							14 26
H. Stiegmeler	Packing and twine.		5 40		94 40							99 80
Strong, Cobb & Co.	Paints and oils.			7 13								7 13
Wiseman & Harvey	Printing reports.			51 90								51 90
M. A. Wilhelmy	Trees.			23 00								23 00
H. R. Worthington	Repairs of meters.		12 06									12 06
F. Young	Varnish.				20 00							20 00
		20,153 33	4,267 93	8,574 45	103 88	71	141 91	20 00	508 89			44,125 42

ABSTRACT OF EXPENDITURES FOR 1880.

JUNE.

BILLS RENDERED BY.	FOR.	Pipe Rx-tension.	General Repairs.	Office and General Expenses.	Engine House Repenses.	Engine House Repairs.	Lake Crib.	Water Meters.	New Boiler House.	New Buildings.	Construction.	Total.
Pay rolls.....	Labor.....	1,676 23	402 45	1,363 81	1,204 75							4,737 29
Beidler & Nicola.....	Coal.....	6 60										6 60
S. E. Brooks & Co.....	Stationery.....			17 73								17 73
W. Bingham & Co.....	Hardware.....	3 00	3 74	2 75	55 31							64 80
Babcock, Hurd & Co.....	Oil tank.....				12 60							12 60
Boston Machine Co.....	Valves.....	1,591 05										1,591 05
H. P. Card.....	Coal.....				653 43							653 43
E. Cushing.....	Rent.....			250 00								250 00
Cleveland Fire Dept.....	Hose.....			52 50								52 50
Cleveland Gas Co.....	Gas and fire clay.....	6 00		1 75								7 75
City of Cleveland.....	Repair of pavement.....	29 87	13 05									42 92
Gibson & Price.....	Pig lead.....	873 34										873 34
J. T. Denham.....	Lumber.....	19 73										19 73
W. H. Ford.....	Horse and wagon hire.....	30 00										30 00
Farnam's Brass Works.....	Brass work.....	21 00	5 80		1 30							28 10

ABSTRACT OF EXPENDITURES FOR 1880.
JUNE—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New Kn- gines.	Construc- tion.	Total.
Forest City B. Foundry.	Ferules and numbers			21 92								21 92
John J. Graves.	Plumbing.		4 40									4 40
Lord, Bowler & Co.	Valves.	246 25										246 25
H. W. Leutkmeyer.	Blades for lawn m'o'r.		90									90
Lake Shore Foundry.	Pipe and castings	19,108 69										19,108 69
T. Manning, Jr., & Co.	Repair work			99 12								99 12
Meriam & Morgan.	Oil.				5 98							5 98
People's Gas Light Co.	Gas.				15 25							15 25
H. A. Rodgers.	Repair engine regist'r				25 75							25 75
P. Ryan.	Cartage.	19 25	3 50	2 75	35							25 85
H. Sackman.	Locksmithing			7 50								7 50
J. Stovering & Co.	Repair work.		15 68									15 68
Upson, Walton & Co.	Rope	7 22										7 22
H. R. Worthington	Meters, etc.			9 10				461 70				470 80
R. D. Wood & Co.	Hydrants	456 00										456 00
		41, 215 61	4, 887 36	10, 433 38	12, 877 98	167 66	20 00	970 50				73, 022 87

JULY.

337

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ABSTRACT OF EXPENDITURES FOR 1880.

JULY—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Construc- tion.	Total.
Sherwin, Williams & Co.	Carbon oil.....		1 06									1 06
Leader Printing Co.	Printing			6 00								6 00
W. P. Southworth.	Palls.....	2 00										2 00
H. Stiegemeier	Hemp packing.....	42 50	5 70									48 20
J. Stovering & Co.....	Repair work.....		3 75									3 75
Strong, Cobb & Co.....	White lead.....		2 38									2 38
l'pson, Walton & Co.....	Capstan bar.....	84										84
A. T. Van Tassel & Co....	Linseed oil, etc.....				12 30							12 30
R. D. Wood & Co.	Fire hydrants.....	458 00										458 00
Worswick Manuf'g Co....	Plumber supplies.....			122 97								122 97
		68,481 36	5,245 48	11,074 74	14,882 78	167 66	20 00	970 59				96,822 61

ABSTRACT OF EXPENDITURES FOR 1880.

AUGUST.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Holl- er House.	New Run- gines.	Construc- tion.	Total.
Pay rolls.....	Labor.....	2,288 55	334 42	1,372 76	1,270 84							5,263 57
Bell, Cartwright & Co.....	Oak	4 32										4 32
W. Bingham & Co.....	Hardware.....	10 46	3 00	23 45	10 43							47 34
Brooks & Co.....	Stationery			29 56								29 56
J. L. Bryant	Drill.....				3 00							3 00
City of Cleveland.....	Repair of pavement...	32 73	9 06									41 79
Cleveland Gas Co.....	Fire clay, etc.....		6 00	1 25								7 25
Geo. Dennon	Sewer work.....	197 68										197 68
M. Faulhaber.....	Carpenter work.....										134 13	143 13
Farnan's Brass Works..	Stop and waste.....	1 40										1 40
Christian Fey.....	Sawed wood.....	6 75										6 75
W. H. Ford.....	Horse and wagon hire.		56 00	2 00								58 00
Fulton Foundry.....	Air cock cover.....	6 00										6 00
Gibson & Price.....	Pig lead	856 88										856 88
J. W. Grover & Son.....	Rope, etc.....			6 46								6 46

ABSTRACT OF EXPENDITURES FOR 1880.

AUGUST—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boil- er House.	New En- gine.	Construc- tion.	Total.
E. N. Hammond.....	Coal	6 63										6 63
Kennedy, DeForest & Co.	Lubricating cup.. ..				3 75							3 75
Lake Shore Foundry.	Pipe and castings.....	5,967 30										5,967 30
Lord, Bowler & Co.	Valves	253 55										253 55
T. Manning, Jr., & Co.	Dressing picks, etc	21 89	15 00									36 89
Plain Dealer Pub. Co.	Advertising								8 34			8 34
People's Gas Co.	Gas				15 88							15 88
Rhodes & Co.	Coal			31 00								31 00
Jacob Sazer.....	Painting and graining										38 94	38 94
George A. Stanley.....	Lard oil				23 50							23 50
J. Stovering & Co.	Blacksmithing	4 50										4 50
A. F. & H. Strater.....	Pig lead.....	155 17										155 17
Upson, Walton & Co.	Rope, etc.....	7 50		88								8 38

ABSTRACT OF EXPENDITURES FOR 1880.

AUGUST—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New Ru- fines.	Constu- tion.	Total.
W. S. Wright.....	Carpenter work.....	.....	.....	18 90	.....	.....	.....	.....	.....	.....	.....	18 90
Worswick Manuf'g Co....	Meter fittings.....	.....	.....	17 75	.....	.....	.....	.....	.....	.....	.....	17 75
H. R. Worthington.....	Water meters.....	.....	.....	.....	.....	.....	.....	324 67	.....	.....	.....	324 67
C. L. Wyman.....	Drawing board.....	.....	.....	4 00	.....	.....	.....	.....	.....	.....	.....	4 00
Forest City Brass F'dry..	Ferules, etc.....	.....	.....	82 48	.....	.....	.....	.....	.....	.....	.....	82 48
		73,302 78	5,708 96	13565 06	16180 18	167 66	20 00	1,265 26	8 34	.....	182 07	110,500 28

ABSTRACT OF EXPENDITURES FOR 1880.

SEPTEMBER.

BILLS RENDERED BY.	FOR.	Pipe ex- tension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	Lake Cmb.	Water Meters.	New Boil- er House.	New En- gines.	Construc- tion.	Total.
Pay rolls.....	Labor.....	2,040 65	369 78	1,385 68	1,239 83	.....	.....	.....	.....	.....	.....	5,065 59
F. & H. Born.....	Lantern globes.....	.....	6 00	.....	.....	.....	.....	.....	.....	.....	.....	6 00
Boston Machine Co.....	Valves.....	.....	118 80	.....	.....	.....	.....	.....	.....	.....	.....	118 80
H. P. Card.....	Coal.....	.....	.....	.....	2,144 27	.....	.....	.....	.....	.....	.....	2,144 27
Jas. Cahill.....	Brooms.....	.....	.....	.....	3 25	.....	.....	.....	.....	.....	.....	3 25
City of Cleveland.....	Pavement repairs.....	180 62	.....	.....	.....	.....	.....	.....	.....	.....	.....	180 62
Cleveland Gas Co.....	Gas.....	.....	.....	1 37	.....	.....	.....	.....	.....	.....	.....	1 37
Cleveland Telephone Co.....	Rent of telephone.....	.....	.....	30 50	.....	.....	.....	.....	.....	.....	.....	30 50
Erastes Cushing.....	Rent.....	.....	.....	250 00	.....	.....	.....	.....	.....	.....	.....	250 00
John T. Denham.....	Lumber.....	88 29	.....	.....	.....	.....	.....	.....	.....	.....	.....	88 29
George Dennon.....	Sewer work.....	.....	8 00	.....	.....	.....	.....	.....	.....	.....	92 55	100 55
W. H. Ford.....	Horse and wagon hire.....	.....	52 00	2 00	.....	.....	.....	.....	.....	.....	.....	54 00
Gibson & Price.....	Pig lead.....	845 66	.....	.....	.....	.....	.....	.....	.....	.....	.....	845 66
Globe Iron Works.....	Machine work.....	25 84	.....	.....	.....	.....	.....	.....	.....	.....	.....	25 84
Herald Publishing Co.....	Printing.....	10 79	.....	.....	.....	.....	.....	.....	12 34	48 32	.....	71 45

ABSTRACT OF EXPENDITURES FOR 1880.

SEPTEMBER—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Construc- tion.	Total.
Tug J. R. Worswick	Delivering coal on crib			12 00								12 00
Worswick Manuf'g Co.	Fittings		5 57	5 00		1 13						11 70
P. Smith & G. M. Smith	Estimate								1,161 04			1,161 04
H. R. Worthington	Meters							341 25				341 25
P. Wieser	Damages Franklin St.		302 50									302 50
John J. Graves	Plumbing			26 19								26 19
		90,339 65	6,645 06	1,6312 77	1,9662 62	168 79	20 00	1,636 51	1,161 72	48 32	274 62	135,290 06

ABSTRACT OF EXPENDITURES FOR 1880.

OCTOBER—Continued.

BILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gine.	Construc- tion.	Total.
Lord, Bowler & Co.	Valves	189 00										189 00
R. T. Lyon	Louisville cement		1 20									1 20
T. Manning, Jr., & Co.	Blacksmithing	30 00	45 05									75 05
National Meter Co.	Water meters							218 00				218 00
People's Gas Co.	Gas				28 88							28 88
P. Ryan	Teaming			33 74								33 74
Sherwin, Williams & Co.	Coal oil				3 00				2,336 20			3 00
P. and G. M. Smith	Estimate											2,336 20
J. Stovering & Co.	Blacksmithing		17 08									17 08
Strong, Cobb & Co.	White lead			2 25								2 25
H. R. Worthington	Water meters							543 40				543 40
Worswick Mfg Co.	Pipe Fittings	6 70	21 08									27 78
H. P. Card	Coal				829 35							829 35
		94,704 49	7,295 73	169 05	221 88 63	166 79	20 00	2,362 91	3,517 92	48 25	274 62	147,138 63

ABSTRACT OF EXPENDITURES FOR 1880.
NOVEMBER.

HILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Construc- tion.	Total
Pay rolls.....	Labor.....	821 78	329	20,145 20	1,353 70							3,955 97
G. W. Barstow.....	Fire clay.....	5 00										5 00
J. A. Beidler & Co.....	Coal.....	12 40										12 40
W. Bingham & Co.....	Hardware.....		4 55	14 95								19 50
F. & H. Born.....	Pump Fixture.....		80									80
Boston Machine Co.....	Valves.....	378 00										378 00
Jas. Cahill.....	Brooms.....				3 25							3 25
H. P. Card.....	Coal.....				1,160 81							1,160 81
City of Cleveland.....	Paving.....	174 75	45 08									219 83
Cleveland Gas Co.....	Gas.....			7 37								7 37
Ceo. Cooper & Co.....	Duck.....	4 80										4 80
Geo. Dennon.....	Sewer work.....	4 12										4 12
Geo. Dennon.....	Sewer work.....	168 53										168 53
Edwards, Townsend & Co Soap				4 95								4 95
Farnan's Brass Works.....	Brass work.....			1 20	1 62							2 82

ABSTRACT OF EXPENDITURES FOR 1880.

NOVEMBER—Continued.

BILLS RENDERED BY.	FOR	Pipe Ex-	(General Repairs.	Office and General Expenses.	Engine House Ex-	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Boll- er House.	New En- gines.	Construc- tion.	Total.
Thos. Feran.....	Hauling pipe.....	5 50										5 50
W. H. Ford.....	Horse and wagon hire.....		28 00									28 00
Forest City Brass Works.....	Ferules.....			102 24								102 24
Gibson & Price.....	Pig lead.....	256 76										256 76
Herald Publishing Co.....	Advertising.....			13 50						15 17		28 67
Martin Kane.....	Kindling wood.....			5 00								5 00
M. E. Kavanagh.....	Teaming.....	64 00										64 00
Lake Shore Foundry.....	Pipe and castings.....	2,802 21										2,802 21
Leader Printing Co.....	Printing.....			24 00								24 00
Leonard & Ellis.....	Valvoline.....				146 12							146 12
Lord, Bowler & Co.....	Valves.....	156 50										156 50
Thos. Manning, Jr. & Co.....	Blacksmithing.....	14 13	34 50									48 72
Meriam & Morgan.....	Oil.....		1 15									1 15
H. Fuller.....	Carpenter work.....										72 92	72 92
People's Gas Co.....	Gas.....			21 25								21 25

ABSTRACT OF EXPENDITURES FOR 1880.

DECEMBER.

BILLS RENDERED BY.	FOR.	Pipe Extension.	General Repairs.	Office and General Expenses.	Engine House Expenses.	Engine House Repairs.	Lake Crib.	Water Meters.	New Boiler House.	New Engines.	Construction.	Total.
Pay rolls...	Labor...	37 50	512 63	1,415 91	1,367 19							3,383 23
Jas. Atchison...	Flue cleaner...				10 00							10 00
J. A. Beidler & Co...	Coal...		2 20	14 75								16 95
W. Bingham & Co...	Hardware...		5 65	1 00	6 30							12 95
F. & H. Born...	Stove castings...		4 58									4 58
Brooks & Co...	Stationery...			2 85								2 85
S. C. Brooks & Co...	Meter boxes, etc...			233 76								233 76
H. P. Card...	Coal...				1,174 78							1,174 78
City of Cleveland...	Pavement and repairs...		9 63									9 63
Cleveland Gas Co...	Gas and fire clay...		6 00	9 37								15 37
Cleveland Telephone Co.	Rent of line...			30 50								30 50
E. Cushing...	Rent of rooms...			250 00								250 00
J. T. Denham...	Lumber...		6 21									6 21
W. H. Ford...	Horse and wagon...		40 00									40 00
Gibson & Price...	Lead gaskets...		2 52									2 52
Globe Iron Works...	Iron work...					44 95						44 95

ABSTRACT OF EXPENDITURES FOR 1880.

DECEMBER—Continued.

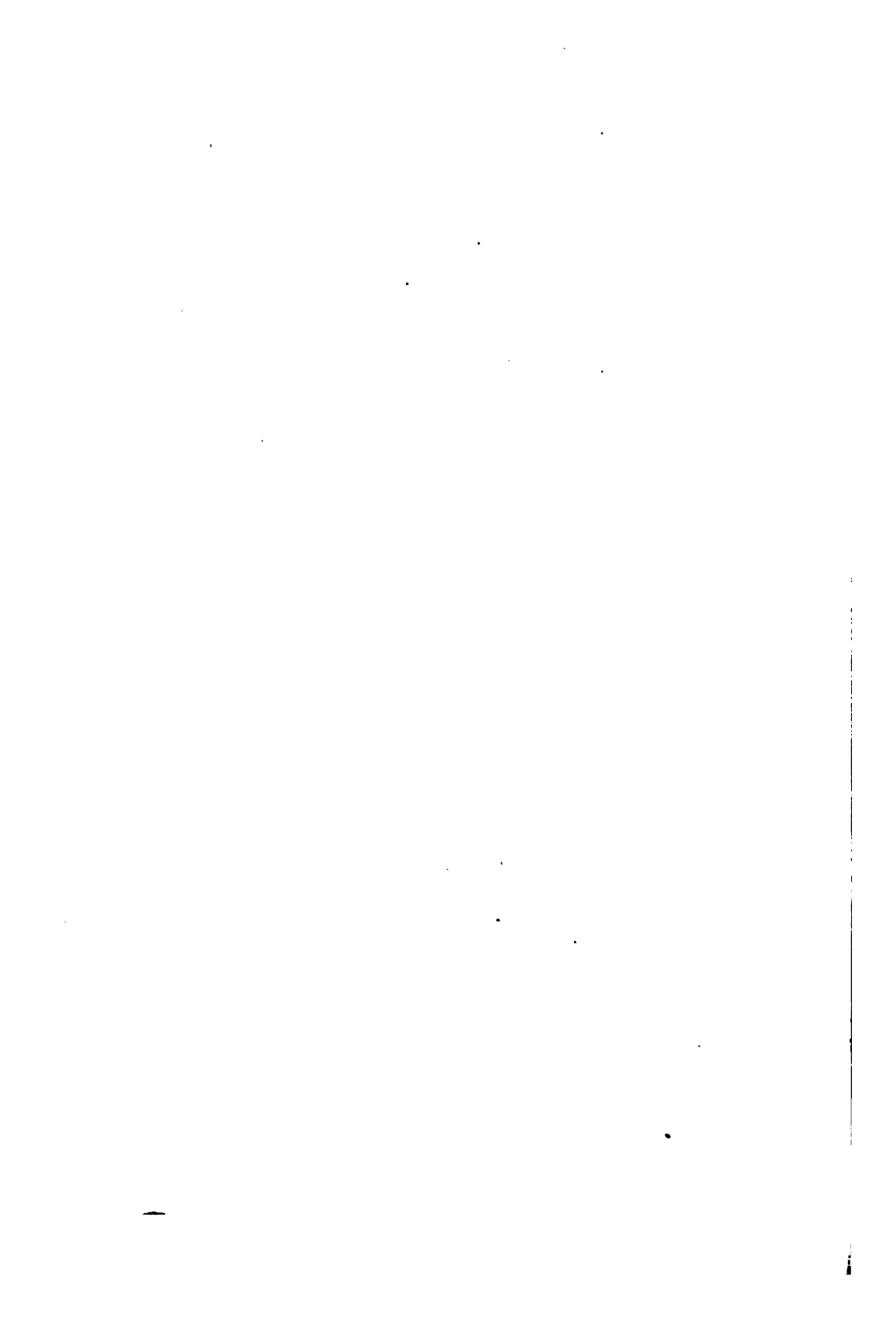
HILLS RENDERED BY.	FOR.	Pipe Ex- tension.	General Repairs.	Office and General Expenses.	Engine House Ex- penses.	Engine House Re- pairs.	Lake Crib.	Water Meters.	New Holi- er House.	New En- gines.	Construc- tion.	Total.
Hotchkiss & Gaylord...	Bolts		2 56									2 56
M. E. Kavanagh.....	Teaming		17 00									17 00
Lake Shore Foundry...	Iron pipe	841 83										841 83
Meriam, Morgan & Co...	Oil				9 10							9 10
Thos. Manning, Jr., & Co.	Blacksmithing		13 80									13 80
People's Gas Light Co...	Gas				27 13							27 13
W. P. Southworth & Co.	Palls		2 00									2 00
H. Stiegemeier.....	Packing, etc.	19 17	10 27									29 44
J. Stovering & Co.....	Blacksmithing		12 11									12 11
Taylor Bros. Co.....	Inking stamp			8 00								8 00
Tod, Wells & Co.....	Coal		1 00									1 00
Variety Iron Works.....	Estimate									12,680 20		12,680 20
Worswick Mfg. Co.....	Fittings for pipe		19 90	20 00								39 90
		100,466 47	8,386 71	21,527 12	27,119 86	213 74	20 00	2,092 03	4,890 36	7,619 23	347 54	172,505 08

ABSTRACT OF EXPENDITURES.

RECAPITULATION.

Pipe Extension	\$100,408 47
General Repairs.....	8,398 71
Office and General Expenses	20,527 12
Engine House Expenses	27,119 88
Engine House Repairs.....	213 74
Lake Crib	20 00
Water Meters.....	2,962 03
New Boiler House Foundation	4,890 36
New Engines and Boilers	7,619 23
Construction.....	347 54
Total	\$172,565 08

NINTH ANNUAL REPORT
OF THE
BOARD OF
POLICE COMMISSIONERS
OF THE
CITY OF CLEVELAND, OHIO,
FOR THE
YEAR ENDING DECEMBER 31st, 1880.



ORGANIZATION.

R. R. HERRICK,

Mayor and Ex-officio President.

Commissioners :

JOHN M. STERLING, *to April, 1880,*

W. H. GABRIEL, *since April, 1880.*

LOUIS HAUSHEER,

GEO. W. SHORT,

J. R. SPRANKLE.

THOMAS KING, *Secretary.*

JACOB W. SCHMITT, *Superintendent.*

JAS. McMAHON, *Captain.*

H. HOEHN, *Captain.*

H. M. HOLZWORTH, *Captain Detectives.*

S. T. EVERETT, *Treasurer.*

DR. W. B. REZNER, *Health Officer.*

**EXTRACT FROM REGULAR MEETING OF THE BOARD, HELD
JANUARY 22, 1881.**

“ The Secretary submitted copies of Annual Report of Police Department.

“ *Ordered*, That two hundred and fifty copies of same be printed and bound.”

By order of the Board,

THOMAS KING,

Secretary.

•

NINTH ANNUAL REPORT
OF THE
BOARD OF POLICE COMMISSIONERS
OF THE
CITY OF CLEVELAND.

OFFICE BOARD OF POLICE COMMISSIONERS, }
CLEVELAND, JAN. 1, 1881. }

To the Honorable City Council of Cleveland, O.:

The Ninth Annual Report of the Board of Police Commissioners is respectfully submitted for the consideration of your honorable body, in compliance with an act of the General Assembly, passed March 17th, 1876, providing for the control of the Police Department of this city.

The year just closed has been somewhat eventful in history, having been "Presidential year," but has been a very quiet one in Police circles, little having transpired to shock the Moral sense of our community, consequently this report will be confined to records of ordinary Police transactions, and a record of all moneys received and disbursed by the Board during the year.

THE BOARD.

Since the last Report there has been one change in the *personnel* of the Board. The time of Commissioner Sterling having expired, the citizens at the last Spring election elected W. H. Gabriel to fill the place formerly occupied by Commissioner Sterling.

The Board at present is made up by the following citizens :

	Term Expires.
R. R. HERRICK, <i>Mayor and Ex-officio President</i> ,	1881.
LOUIS HAUSHEER, - - - - -	1881.
J. R. SPRANKLE, - - - - -	1882.
GEO. W. SHORT, - - - - -	1883.
W. H. GABRIEL, - - - - -	1884.

THOMAS KING, *Secretary*.

STANDING COMMITTEES.

On Rules, Men and Discipline.

COMMISSIONERS HAUSHEER, SPRANKLE AND SHORT.

On Station Houses and Repairs.

COMMISSIONERS SPRANKLE, HAUSHEER AND GABRIEL.

On Finance and Account.

COMMISSIONERS GABRIEL, SHORT AND SPRANKLE.

INVENTORY OF PUBLIC PROPERTY.

APPERTAINING TO

THE POLICE DEPARTMENT OF THE CITY OF CLEVELAND.

No.	ARTICLES.	VALUE.
8	Awnings.....\$	40 00
1	Book Rest	50
2	Beds and Bedding	20 00
8	Black Boards.....	8 00
130	Badges, white.....	390 00
20	Badges, gilt	100 00
13	Baskets, paper	2 50
4	Baskets, other.....	1 25
140	Belts	140 00
4	Boxes, letter	1 50
30	Brushes, shoe	8 00
10	Brushes, other.....	10 00
60	Brooms	12 00
18	Brooms, wisp	2 00
25	Buckets, cell	12 50
20	Buckets, other	4 00
1	Buggy	50 00
1,152	Buttons, (8 gross.) gilt	43 00
5,700	Buttons, (40 gross.) white	200 00
3	Book cases.....	110 00
1	Book rack	8 00
200	Books of arrests	20 00
12	Boxes Pistol Cartridges	20 00
3	Carpets, Brussels	20 00
4	Carpets, other.....	30 00
8	City Ordinances.....	5 00
8	City Directories	32 00
94	Chairs, common.....	94 00
69	Chairs, cane and splint.....	100 00
24	Chimneys, lamp	1 50
9	Clocks.....	45 00

30	Coal, Hard, tons	120 00
20	Coal, Soft, tons	57 00
15	Coal Hods	10 00
20	Coal Stoves	225 00
6	Call Bells	51 00
5	Cupboards	20 00
8	Cups, mucilage	1 50
65	Cups, tin	5 00
15	Chairs, pivotal	25 00
1	Desk, circular	40 00
25	Desks	250 00
8	Drop Lights	24 00
6	Dust Pans	1 00
Lot	Envelopes, large, boxes	2 00
Lot	Envelopes, small, boxes	3 00
8	Erasers, ink	1 50
6	Feather Dusters	6 00
17	Floor Mats	15 00
5	Foot Rugs	5 00
7	Fire Alarm Instruments	200 00
1	General Statutes	2 00
30	Gloves, pairs	60 00
4	Hammers	2 00
350	Hose, feet	40 00
1	Horse	100 00
1	Harness	15 00
30	Ink Stands	20 00
48	Ink Bottles, black	34 00
12	Ink Bottles, red	3 00
8	Ladders, step	20 00
20	Lanterns	15 00
3	Letter Presses	25 00
3	Lounges	25 00
1	Letter Press Stand	8 00
Lot	Linoleum	222 00
9	Maps	25 00
1	Matting	3 00
6	Match boxes	1 20
10	Mirrors	15 00
40	Mops	6 00
5	Mucilage, bottles	1 00

56	Muskets	250 00
1	Museum Case	150 00
8	Oil Cloths, lots	10 00
	Lot Paper, Foolscap, reams	5 00
	Lot Paper, Letter, reams	8 00
	Lot Paper, Legal Cap.	12 00
	Lot Paper, Blotting Sheets, small	50
	Lot Paper, Blotting Sheets, large	50
8	Paper Cutters	1 00
6	Paper Files	1 00
8	Paper Weights	2 25
10	Pads, blotting	2 00
	Lot pens, steel	5 00
	Lot Penholders	50
9	Penrucks	90
	Lot Pencils, lead	4 00
219	Police Clubs	219 000
225	Police Numbers	12 00
250	Police Regulations	125 00
20)	Police Wreaths	20 00
2	Pictures	8 00
1	Rake	25
2	Refrigerators	4 00
700	Rogues' Pictures	350 00
6	Rulers	1 50
	Real Estate	100,000 00
10,000	Rounds Ammunition	150 00
3	Safes	400 00
1	Scythe and Snath	1 00
12	Shovels	5 00
1	Soap, Hard, box	5 00
3	Soap, Soft, barrels	9 00
40	Spittoons	20 00
10	Sponges	4 00
4	Stands	20 00
2	Stools	2 00
1	Sapolio, box	4 00
3	Statutes	3 00
8	Stretchers	16 00
1	Steam Boiler and Heater	800 00
28	Tables	250 00

Lot Tags	8 00
10 Telegraph Instruments.....	150 00
75 Towels	15 00
8 Towel Racks	2 00
12 Twine, balls.....	50
Telephone Wire.....	450 00
18 Water Coolers.....	25 00
20 Water Pails	4 00
27 Wardrobes	30 00
1 Wheelbarrow	1 00
72 Window Curtains.....	50 00
1 Wrench	1 00
15 Zinc, sheets.....	10 00
<hr/>	
Total Valuation.....	\$ 106,872 82

THE FORCE.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan law.	Remarks.
Superintendent	J. W. Schmitt	Germany	May 1, 1866	
Captain	Henry Hehn	Ireland	"	
"	James McMahon	Germany	"	
"	H. M. Holzworth	Ireland	"	
"	M. F. Madigan	Germany	"	
1st Lieutenant	Conrad Koch	Germany	"	
2d	Wm. Tompkins	England	"	
4th	R. L. Fleury	United States	"	
5th	Chas. McHann	"	"	
6th	Wm. R. Simmons	"	"	
7th	Philip Anthony	"	"	
8th	E. E. Morse	"	Dec. 24, 1870	
9th	Frank Wagner	Germany	Nov. 3, 1871	
10th	John Schrier	United States	June 23, 1880	
Detective.	Geo. F. Goodrich	United States	April 6, 1870	
"	Theo. Lautscher	Germany	May 1, 1866	
"	W. H. Hülligan	Canada	Nov. 6, 1872	
"	Henry Schroeder	Germany	Oct. 20, 1866	
"	J. J. Lawrence	Germany	May 1, 1866	
"	A. A. Lawrence, Sen.	England	"	
"	John Reayes	Ireland	July 8, 1873	
"	F. Gallagher	United States	Sept. 7, 1871	
"	E. T. Cranger	United States	"	
Sergeant	Jacob Stein	Germany	"	
"	S. Kuchman	United States	April 25, 1868	
"	P. A. Searies	United States	Nov. 3, 1871	
"	A. Etelman	Germany	May 1, 1866	

In charge of emigrants.

THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan law.	Remarks.
Sergeant...	E. K. Hutchinson	United States	April 12, 1876	
"	Theo. Keegan	Ireland	" 9, 1869	
"	John Barrow	United States	Aug. 7, 1867	
Supt's Clerk...	M. J. Haley	"	April 20, 1872	
Tel. Operator	E. F. Schultz	"	May 6, 1875	
Doorman	S. L. Miller	"	Nov. 1, 1878	
"	Chas. Schroeder	"	" 27, 1878	
Janitor...	Wm. Jenkins	England	Dec 7, 1880	
"	Alex. Smith	Ireland	April 19, 1876	
"	Wm. Anthony	United States	June 27, 1873	
Patrolman, 1	M. J. O'Malley	Ireland	May 23, 1871	
2	Joseph Stadler	Germany	Sept. 16, 1876	
3	G. W. Broadwell	United States	April 14, 1877	
4	M. English	Ireland	" 8, 1871	
5	A. J. Marx	Germany	Sept. 14, 1870	
6	John Basbold	"	Jan. 8, 1875	
7	Geo. J. Griffin	United States	July 12, 1870	
8	M. Manzelman	Germany	April 20, 1872	
9	E. Shipman	England	Jan. 31, 1871	
10	"	"	"	
11	M. Ostermeyer	Germany	Aug. 7, 1867	
12	B. Rosenfelder	"	May 1, 1868	
13	Kilian Dienst	"	" 1	
14	D. W. McCready	United States	March 6, 1878	
15	C. C. Thomas	"	April 21, 1872	
16	John Dunn	"	Dec. 3, 1870	
17	Wm. Hildebrand	Germany	Sept. 21, 1872	
18	Philip Haggerty	Ireland	May 1, 1869	
19	Alvin S. Gates	United States	Nov. 18, 1871	
20	John J. Mollan	Ireland	Aug. 22, 1873	
21	Peter Wilson	England	April 7, 1873	
22	Patrick Carr	Ireland	Jan. 8, 1875	
23	Wm. Mylechraile	Isle of Man	Feb. 23, 1872	
24	John Buechler	Germany	May 1, 1872	

At Union Depot.

THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan law	Remarks.
Patrolman 25	John Paron	Ireland	May 1, 1866	
" 26	Joseph Krenzle	Germany	Dec. 7, 1875	
" 27	Jacob Haimel	United States	May 1, 1866	Detalled Court Duties.
" 28	Theo Hathaway	Bohemia	April 20, 1872	
" 29	W. Havelchick	Nova Scotia	" 30, 1873	
" 30	John Williams	United States	" 30, 1872	
" 31	A. D. Hildreth	Germany	Jan. 20, 1875	
" 32	William Vogel	"	Nov. 21, 1871	
" 33	G. A. Domino	United States	Jan. 17, 1875	
" 34	Jacob Boyer	England	Dec. 4, 1878	
" 35	Richard Dunn	United States	May 1, 1866	
" 36	A. R. Runsey	"	Oct. 24, 1877	
" 37	H. A. Cordes	Ireland	July 25, 1868	Detalled Janitor 2d Prec.
" 38	Thomas Hoban	United States	Sept. 22, 1871	
" 39	M. F. Wood	Bavaria	May 9, 1877	
" 40	J. M. Brooks	United States	" 4, 1860	
" 41	S. D. Mell	Ireland	April 30, 1873	
" 42	John P. Norton	United States	May 8, 1866	
" 43	Geo. W. Willis	Germany	Sept. 23, 1879	Detalled Union Depot.
" 44	Christian Hennes	United States	April 24, 1874	
" 45	D. A. Writenour	Germany	May 30, 1866	
" 46	Jacob Gauss	Ireland	June 10, 1875	
" 47	Patrick O'Malley	United States	Dec. 7, 1878	
" 48	F. G. Hanks	Germany	April 13, 1880	
" 49	Adam Folzenlogel	United States	July 19, 1871	
" 50	Josiah Johnson	Germany	April 6, 1877	
" 51	H. T. Fehlhaber	Ireland	" 13, 1866	
" 52	Patrick Corkill	England	Nov. 6, 1872	
" 53	Thomas Thompson	Switzerland	Dec. 2, 1879	
" 54	Frank Meyer	United States	Nov. 13, 1871	
" 55	William Sargo	Ireland	May 22, 1876	
" 56	J. W. Johnston	United States	" 22, 1876	
" 57	W. J. Flanagan	"	April 2, 1873	
" 58	Richard Reeve	"	"	

THE FORCE—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.	Remarks.
Patrolman 59.	W. S. Lipps.	United States	April 20, 1872	Detailed Court Officer.
" 60.	Wm. W. Weygandt.	"	Sept. 4, 1877.	
" 61.	J. H. Hicks.	"	"	
" 62.	Philip Salmon.	Germany	June 11, 1873	
" 63.	E. A. Boynton.	United States	Jan. 3, 1878	
" 64.	Wm. Smith.	"	Dec. 1, 1880.	
" 65.	John Sprankel.	Germany	Aug. 6, 1873.	
" 66.	Peter Ruckman.	United States	Dec. 2, 1879.	
" 67.	Chas. Eckard.	Germany	May 8, 1868.	
" 68.	John Quinn.	Ireland	16, 1871.	
" 69.	George Kadel.	Germany	" 1, 1866.	
" 70.	Chas. Tressell.	"	Nov. 29, 1869.	
" 71.	W. S. Rowe.	United States	May 18, 1880.	
" 72.	John Burns.	Ireland.	May 8, 1868.	
" 73.	P. J. Luchrs.	Helgoland	April 20, 1872.	
" 74.	Jacob Mayers.	"	Nov. 13, 1871.	
" 75.	A. A. Lawrence, Jr.	United States	" 29, 1874.	
" 76.	Peter Kadel.	Germany	May 8, 1868.	
" 77.	A. C. McIlraith, Jr.	United States	May 16, 1871.	
" 78.	E. W. Bradley.	"	April 20, 1875.	
" 79.	J. W. Varner.	"	Jan. 21, 1878.	
" 80.	J. C. Denzer.	"	Nov. 27, 1878.	
" 81.	J. Matzourek.	Bohemia	Nov. 15, 1874.	
" 82.	Francis Douglass.	Ireland	Nov. 13, 1871.	
" 83.	N. J. Mershon.	United States	May 20, 1879.	
" 84.	F. B. Eustace.	"	April 19, 1875.	
" 85.	J. McCormick.	Ireland	April 3, 1874.	
" 86.	A. J. Barnes.	United States	Sept. 7, 1871.	
" 87.	A. M. Blood.	"	Nov. 26, 1874.	
" 88.	D. Cantillon.	Ireland	Jan. 20, 1875.	
" 89.	Geo. W. Floyd.	United States	April 10, 1875.	
" 90.	F. R. Humphrey.	England	Sept. 7, 1871.	Detailed Court Duties.
" 91.	Geo. E. Corner.	United States	April 20, 1880.	
" 92.	M. F. Nibley.	"	Mar. 26, 1873.	

THE FORCE—Continued.

Rank.	Name	Nativity.	First Entry into Service under Metropolitan Law	Remarks.
Patrolman 93	M. W. Murphy	United States	Sept. 7, 1871	
" 94	Patrick Kennedy	Ireland	June 10, 1875	
" 95	A. McMillan	Canada	Feb. 23, 1872	
" 96	J. F. Megorth	Switzerland	May 1, 1872	
" 97	Henry Seibel	United States	Feb. 6, 1873	
" 98	John P. Bramley	England	Nov. 2, 1871	
" 99	F. J. Lambert	Germany	" 23, 1872	
" 100	F. C. Lauser	"	July 17, 1874	
" 101	Chas. Fischer	United States	Nov. 2, 1871	
" 102	S. B. Close	Bohemia	May 16, 1878	
" 103	Frank Kuhns	Ireland	Sept. 18, 1875	
" 104	J. H. Mangin	United States	Nov. 27, 1878	
" 105	Charles McMasters	United States	Sept. 23, 1879	
" 106	F. S. Allison	"	April 9, 1877	
" 107	Chas. Dangler	"	Sept. 21, 1878	
" 108	George D. Scott	Bohemia	Nov. 6, 1872	
" 109	John Sprosty	United States	Mar. 18, 1880	
" 110	Geo. Demaline	"	Nov. 6, 1872	
" 111	W. A. Sherman	"	Nov. 6, 1872	
" 112	J. W. Francis	"	Sept. 9, 1875	
" 113	J. Hageman	Ireland	April 6, 1877	
" 114	J. McGraw	"	Jan. 13, 1873	
" 115	Wm. O'Brien	United States	Mar. 5, 1875	
" 116	Chas. Miller	"	April 9, 1879	
" 117	Isaac Smith	Germany	Feb. 5, 1873	
" 118	Philip Heege	United States	Jan. 18, 1878	
" 119	A. R. Sidley	Ireland	Feb. 5, 1873	
" 120	D. McClusky	Ireland	" 12, 1875	
" 121	M. H. Storer	United States	Nov. 26, 1874	
" 122	J. O'Laughlin	Ireland		Det'd Janitor 4th Prec.
" 123	Wm. Schearline	United States		

NATIVITY.

COUNTRY.	Dec. 31, 1880.	Dec. 31, 1879.	Increase.	Decrease
Bohemia	4	4		
Canada	2	2		
England	8	8		
Germany	41	39	2	
Hellgoland	1	1		
Ireland	30	30		
Isle of Man	1	1		
Nova Scotia	1	1		
Switzerland	2	2		
United States	71	73		2
Total	161	161	2	2

PAY OF THE FORCE.

AMOUNT ENTITLED TO BE DRAWN BY THE POLICE DEPARTMENTS AT FULL TIME.

No.	OFFICERS.	Yearly Compensation.	Total.	Grand Total.
1	Superintendent.....	\$2,000 00	\$2,000 00	
1	Secretary.....	1,500 00	1,500 00	
3	Captains	1,296 00	3,888 00	
10	Lieutenants	950 00	9,500 00	
8	Detectives	950 00	7,600 00	
8	Sergeants.....	875 00	7,000 00	
1	Superintendent's Clerk.....	900 00	900 00	
1	Operator.....	600 00	600 00	
2	Doorman	600 00	1,200 00	
1	Janitor.	720 00	720 00	
1	Janitor.....	700 00	700 00	
1	Fireman	480 00	480 00	
120	Patrolmen	756 00	90,720 00	
2	Patrolmen Detailed	700 00	1,400 00	
1	Patrolmen Detailed	825 00	825 00	\$129,033 00

DISTRIBUTION OF THE FORCE.

WHERE STATIONED.	REGULAR FORCE.						SUBORDINATES.				Social Cond'n	NATIVITY.														
	Superintendent.	Secretary.	Captains.	Lieutenants.	Detectives.	Sergeants.	Patrolmen.	Superintendent's Clerk.	Telegraph Operator.	Boormen.		Janitors.	Firemen.	Total.	Married.	Single.	United States	Germany.	Ireland.	England.	Canada.	Switzerland.	Isle of Man.	Nova Scotia.	Heilgoland.	Bohemia.	Total.
Headquarters	1	1	1	2	9	1	41	1	1	1	1	1	10	8	112	3	4	4	1	1	1	1				10
First Precinct							13						50	44	27	27	8	12	4							50
Second Precinct							1						16	14	2	6	5	4	1							16
Third Precincts.							20						24	24	8	8	8	2								24
Sixth Precinct.					2		25				1		31	28	3	12	7	1	8	2	1	1	1	1	2	31
Fourth Precinct.		1					8						10	8	2	7	2	4							1	10
Fifth Precinct.							1						10	10	1	4	4	1	1						1	10
Sixth Precinct.							1						10	8	1	4	3	2							1	10
Seventh Precinct.							1						10	8	1	4	3								1	10
Eighth Precinct.							1						10	8	1	4	3								1	10
Total	1	1	3	10	8	1	123	1	1	2	2	1	161	144	17	72	41	30	8	2	2	1	1	1	4	161

APPOINTED DURING THE YEAR.

Date.	Names.	Age.	Nativity.	Former Occupation.	Social Condition.	Rank.	No.
March 18	George Demaline	35	United States	Farmer	Married	Patrolman	110
April 13.	Adam Folzenlogel	34	Germany	Laborer	"	"	49
" 20	Geo. E. Corner	28	United States	Watchman	"	"	91
May 4	J. M. Brooks	33	Bavaria	Coal dealer	"	"	40
" 18	W. S. Rowe	25	United States	Marble cutter	"	"	71
Dec. 7	Wm. Smith	35	"	Heater	Single	"	64
" 7	Wm. Jenkins	35	England	Mason	Married	Janitor .....	...

MEMBERS OF THE FORCE TRIED DURING THE YEAR.

1890.	Name.	Rank.	No.	Charge.	Sentence.
January 13	E. E. Morse	Lieutenant.		Violating Rules and State Laws.	Not Guilty.
January 13	A. R. Rumsey	Patrolman	38	"	"
January 13	F. S. Allison	"	106	"	"
January 20	John Quinn	"	88	Violating Rules	Reprimand.
February 3	Patrick Kennedy	"	94	"	Not Guilty.
February 3	J. H. Mangan	"	104	"	Reprimand and Fine of \$25.00.
March 2	Geo. W. Floyd	"	89	"	Not Guilty.
*March 16	S. B. Close	"	102	"	"
April 20	James Edwards	"	91	"	Dismissed.
May 4	Henry Feldcamp	"	64	Sleeping on Duty	Reprimand and Fine of \$20.00.
August 3	Daniel McClosky	"	120	Violating Rules	Reprimand.
August 17	Philip Heege	"	118	"	"
August 31	John Quinn	"	88	"	Suspended 30 Days
September 7	Charles Miller	"	116	Incompetency	Reprimand and Fine of \$25.00.
October 19	F. G. Hanks	"	48	Violating Rules	Not Guilty.
October 19	A. D. Hildreth.	"	31	Intoxication	Reprimand and Fine of \$50.00.
December 7	Adam Folzenlogel	"	40	Entering Saloons while on Duty	" 10.00.
December 7	Jacob Boyer	"	34	"	" 25.00.
December 7	Henry Feldcamp	"	64	Intoxication	Dismissed.
December 21	Thomas Hoban.	"	38	Physical Incompetency	Sentence suspended.

*Patrolman S. B. Close, No. 102, was tried at his own request.

CHANGES IN THE DEPARTMENT.

	Superintendent.	Secretary.	Captains.	Lieutenants.	Sergeants.	Detectives	Patrolmen.	Superintendent's Clerk.	Doormen.	Telegraph Operators.	Janitors.	Firemen.	Total.
Remaining Last Report.	1	1	3	10	8	8	123	1	2	1	2	1	161
Appointed during year.							6				1		7
Died													
Dismissed from Force..							2				1		3
Resigned.....							4						4
Remaining.....	1	1	3	10	8	8	123	1	2	1	4	1	161

HEADQUARTERS, PRECINCTS, DISTRIBUTION OF MEN AND STATION HOUSES.

HEADQUARTERS

At City Hall, Rooms Nos. 15 and 16. The Board and Secretary occupy No. 15, the Superintendent and Telegraph Operator No. 16, and Detectives No. 14. No. 15, second floor, is used for store room.

PRECINCTS.

The boundaries of Precincts remain the same as at last Annual Report, and are as follows :

FIRST PRECINCT.—From the Lake shore along Erie street to Cross street, along Cross street to the River, up the River to the N. Y. P. & O. R. R. track, along said track to Tracy street, along Tracy street to the River, along the River to the Lake shore, along the Lake shore to Erie street.

SECOND PRECINCT.—From the Lake shore along Erie street to Euclid avenue, along Euclid avenue to Case avenue, along Case avenue to the Lake shore, along the Lake shore to Erie street.

THIRD PRECINCT.—From Euclid avenue along Erie street to Cross street, along Cross street to Cuyahoga River, up Cuyahoga River to the N. Y. P. & O. R. R. track, along the track to Kingsbury Run, up Kingsbury Run to Willson avenue, along Willson avenue to Garden street, along Garden street to Hayward street, along Hayward street to Prospect street, along Prospect street to Fern alley, along Fern alley to Euclid avenue, along Euclid avenue to Erie street.

FOURTH PRECINCT.—From the Lake shore up the River to Tracy street, along Tracy street to the N. Y. P. & O. R. R. track, along said track to the C. C. C. & I. R. R. track, along said track to the City Limits, south along the City Limits to the Lake Shore, along the Lake shore to the River.

FIFTH PRECINCT.—From the N. Y. P. & O. R. R. track along the C. C. C. & I. R. R. track to the City Limits, south along the City Limits to the River, down the River to the N. Y. P. & O. R. R. track, along said track to the C. C. C. & I. R. R. track.

SIXTH PRECINCT.—From Willson avenue along Quincy street to the City Limits, east, along the City Limits, south, to the north boundary line of the Eighteenth Ward, along said boundary line west to Cuyahoga River, down Cuyahoga River to the N. Y. P. & O. R. R. track, along said track to Kingsbury Run, up Kingsbury Run to Willson avenue, along Willson avenue to Quincy street.

SEVENTH PRECINCT.—From the Lake shore along Case avenue to Euclid avenue, along Euclid avenue to Fern alley, along Fern alley to Prospect street, along Prospect street to Hayward street, along Hayward street to Garden street, along Garden street to Willson avenue, along Willson to Quincy street, along Quincy street to City Limits, east, along the City Limits to the Lake shore, north along the Lake shore to Case avenue.

EIGHTH PRECINCT.—All the territory in the Eighteenth Ward, bounded on the north by Union street; on the east, south and west by the limits of the city.

DISTRIBUTION OF FORCE.

<i>Headquarters</i> —One Superintendent, one Captain, one Secretary, six Detectives, one Operator,	10
<i>First Precinct</i> —One Captain, two Lieutenants, one Sergeant, forty-one Patrolmen, one Superintendent's Clerk, two Doormen, one Janitor, one Fireman,	50

<i>Second Precinct</i> —Two Lieutenants, one Sergeant, thirteen Patrolmen,	16
<i>Third Precinct</i> —Two Lieutenants, one Sergeant, twenty Patrolman, one Janitor,	24
<i>Fourth Precinct</i> —One Captain, two Lieutenants, two Detectives, one Sergeant, twenty-five Patrolmen,	31
<i>Fifth Precinct</i> —Two Sergeants, eight Patrolmen,	10
<i>Seventh Precinct</i> —One Lieutenant, one Sergeant, eight Patrolmen,	10
<i>Eighth Precinct</i> —One Lieutenant, one Sergeant, eight Patrolmen,	10
Total,	<hr/> 161

STATION HOUSES.

The Station Houses are located as follows :

First Precinct—On Champlain street, west of Seneca. This Station contains the offices of the Police Clerk, Captain of the Eastern District, and the Police Court Room.

Second Precinct.—Station House is situated on the corner of Nevada and Oregon streets.

Third and Sixth Precincts.—On Forest Street, between Croton street and Woodland avenue.

Fourth Precinct.—On Detroit street, near Pearl. Is the headquarters of the Western District (Fourth and Fifth Precincts) and contains the office of Captain McMahon.

Fifth Precinct.—On Barber avenue, east of Pearl street.

Seventh Precinct.—Room No. 1220 Euclid avenue, near Willson avenue.

Eighth Precinct.—Station is located on Wales street, Eighteenth ward.

HEALTH STATEMENT.

	No. of Days Required to be Served.	ABSENTEES—CAUSE.									Average Strength of Force.
		No. of Days Served.	With Leave.	Without Leave.	Sick.	Sickness in Family.	Disabled While on Duty.	Suspended from Duty.	Rule 49½ *	Total Absent.	
January.....	4,960	4,784	38	1	125	4			8	176	160.00
February.....	4,640	4,397	9		208	3	7		16	243	160.00
March.....	4,960	4,779	20		139	9			13	181	160.00
April.....	4,799	4,647	14		81	17			40	152	159.66
May.....	4,938	4,815	7		73				42	123	159.29
June.....	4,800	4,658	19	1	53	2	10		58	142	160.00
July.....	4,935	4,791	17		42		25	30	30	144	159.19
August.....	4,929	4,673	25		75	8	8	32	108	256	159.00
September.....	4,778	4,493	12		106	1	20	60	86	285	159.26
October.....	4,900	4,658	28	2	89	8	38	34	103	302	160.00
November.....	4,800	4,562	53		58	3	28	16	80	238	160.00
December.....	4,958	4,611	17		210	17	28		75	347	159.93
Total.....	58,457	55,868	250	4	1,259	72	164	172	659	2,580	159.69
Average yearly attendance—each man.....349.81											
“ “ absence.....											16.19
“ “ daily loss of time.....											7.07
“ “ “ “ with leave.....											.70
“ “ “ “ without leave.....											.01
“ “ “ “ by sickness.....											3.44
“ “ “ “ by sickness in family.....											.20
“ “ “ “ disabled while on duty.....											.45
“ “ “ “ Suspended from duty.....											.47
“ “ “ “ Rule 49½.....											1.80

*Rule 49½ allows each member of the force six days leave of absence, each year at full pay.

STATION HOUSES.

The Station Houses now in use, with the exception of that old "relic of barbarism," the Central, are in as good condition as can be expected. They will all require some little repairs in the spring, but nothing requiring a large expenditure of money. The Central is in the same condition as in 1879, when the opinion of the Board was rather clearly expressed in a communication addressed to the Honorable City Council as follows :

"The Board again most respectfully call your attention to the condition of the Central Station. This building was erected when the number of arrests was less than one thousand per year, and when the entire police force of the city was about one half the number now on duty in the First Precinct. The police business of the entire city to a great extent centers in this building. The Police Court is held here and all prisoners are brought here for trial. That the building is damp, uncomfortable, unhealthy, badly arranged, and a scandal on the fair name of our city, and that the Grand Jury of the county some years since condemned it as a nuisance, are facts well known to your honorable body, and the Board again most respectfully but earnestly request you to give this subject the attention it deserves, and that the work may be done as soon as possible."

ANNUAL REPORT

OF THE

DETECTIVE DEPARTMENT

FOR THE

YEAR ENDING DECEMBER 31st, 1880.

To the Honorable Board of Police Commissioners :

GENTLEMEN:—I hereby submit to your Honorable Board of Police Commissioners the Annual Report of the Detective Department for the year ending December 31, 1880.

Respectfully submitted,

J. W. SCHMITT,

Supt. of Police.

REPORT OF DETECTIVE DEPARTMENT.

CLEVELAND, O., January 1, 1881.

J. W. Schmitt, Sup't of Police :

SIR :—The following is a report of the labor performed by the Detective Department during the year ending December 31st, 1880.

THE FOLLOWING ARRESTS WERE MADE DURING THE YEAR.

Adultery	2
Abusing family	1
Administering poison to kill.....	2
Abortion	2
Abusing animal.....	2
Assault and battery	6
Burglary	14
Bigamy	2
Buying and receiving stolen property.....	5
Bastardy.....	1
Careless driving.....	1
Contempt of court.....	1
Disorderly conduct.....	6
Drunk.....	22
Destroying property.....	3
Disturbance	6
Embezzlement	15
Forgery.....	4
False pretenses.....	1
Fugitive from justice.....	1
Grand larceny.....	19
Gambling	4
Horse stealing.....	2
Insane	1
Illegal voting.....	1
Indecent conduct	1

Incorrigible conduct.....	2
Manslaughter.....	1
Murder.....	2
Obtaining goods by false pretenses.....	1
Obtaining money by false pretenses.....	2
Obstructing officer.....	2
Petit larceny.....	34
Peddling without license.....	1
Receiving stolen property.....	11
Robbery.....	2
Suspicion.....	54
Shooting with intent to kill.....	1
Selling liquors to minors.....	1
Sending threats of injury to person.....	1
Violating property ordinance.....	1
Violating pawn law.....	2
Vagrancy	1
Violating liquor law.....	3
Violating intelligence law.....	1
Violating health ordinance.....	2
Violating lottery law	3
Wrongfully using a horse.....	1
Total.....	232

STOLEN PROPERTY RECOVERED.

January.....	\$ 1,787 00
February.....	2,819 75
March.....	896 00
April.....	686 25
May.....	688 44
June.....	1,742 00
July.....	615 00
August.....	622 00
September.....	1,351 50
October.....	1,274 35
November.....	965 65
December.....	693 78
Total.....	\$14,041 72

Much valuable assistance has been rendered to officers from abroad in their search after criminals, and 16 parties arrested here on felonious charges have been remanded to officers of the following cities :

Allegheny, Pa.....	1
Akron, O.....	1
Ashtabula, O.....	1
Buffalo.....	1
Chicago, Ill.....	1
Canton, O.....	1
Erie, Pa.....	1
Erie county, O.....	1
Fayette county, O.....	1
Jefferson, O.....	1
Pittsburgh, Pa.....	1
Painesville, O.....	1
Toledo, O.....	2
St. Louis, Mo.....	1
Warren, O.....	1
Total.....	16

REPORT OF EMIGRANT OFFICER.

To Henry M. Holzworth, Captain of Detectives :

I have the honor of submitting the following report for the year ending December 31st, 1880. Twenty-nine thousand four hundred and forty-seven emigrants arrived in this city, of whom 22,739 came via the L. S. & M. S., 3,135 came via the C. & P., and 3,573 via the N. Y. P. & O. R. R. Three thousand four hundred and sixty-nine settled in this city from different nations, as follows : Germans, 1,291 ; Bohemians, 1,127 ; English, 335 ; Irish, 411 ; Hungarians, 218 ; Italians, 52 ; Swedes, 21 ; Danes, 14.

Quite a number of Poland and Hungarian families arrived here during September, November and December, also some from West Prussia, who were entirely destitute and without means. They were all provided for, that is, work given them, with the exception of one Hungarian family (husband, wife and two children), who were sent to the Infirmary. Five of these destitute families were sent to Amherst, where they obtained work in the quarries of the Clough Stone Co. Several of the families were sent West, where they had friends and relations, through the aid of the railroad officials.

Six different families—one of whom was going to Sutton. Neb., another to Rockford, Ill., two to Plymouth, Ind., one to Negaunee City, Mich., and one to Evansville, Ind.,—were each one ticket short. All these had to pay their fare over again from Buffalo to Cleveland, but the money was refunded through Mr. J. W. Cary, and they got the proper tickets from Castle Garden. All these mistakes were made at Castle Garden.

A great swindle is practised upon the emigrants by the European agents. They frequently sell orders to emigrants which call for tickets of a roundabout route. I have had several cases of that kind. One family applied to Karesh & Stotzky at Bremen for tickets to this city. They presented the address of their friend here, which was, "M. N. Binck, 383 Hamilton street, Cleveland, Ohio, North America." It was very plainly written, but the agents in Bremen did not understand it, and sold the applicant an order calling for tickets to Hamilton, Ohio. I discovered the mistake when the family reached this city, and saved them from going to Hamilton and paying their fare back again. I had another case where a Hamburg agent sold five tickets to Tiffin, though the family desired to go to Easton, on the Cleveland, Tuscarawas Valley & Wheeling Railway. In one other case a family of six wanted to go to South Bend, Ind. When they landed in New York they found that they had to go to Baltimore to get the ticket upon their order, and then they were only furnished with tickets as far as Cleveland. I cite these cases as mere examples of how the emigrants are cheated.

Yours respectfully,

HENRY SCHROEDER,

Detective.

The following abstract shows the number of emigrants passing through the city, roads by which they came, number settled in this city, and their nationality, for the year ending December 31, 1880.

RAILROADS.

MONTH,	RAILROADS.			
	L. S. & M. S.	C. & P.	N. Y. P. & O.	Total.
January.....	233	60	44	337
February.....	479	113	104	696
March.....	1,411	204	173	1,788
April.....	2,149	436	232	2,817
May.....	4,073	618	565	5,256
June.....	3,141	225	424	3,790
July.....	2,243	142	229	2,614
August.....	1,663	210	226	2,104
September.....	1,866	262	292	2,410
October.....	1,678	323	612	2,613
November.....	2,121	392	470	2,983
December.....	1,677	155	202	2,034
Total.....	22,739	3,135	3,573	29,447

SETTLED IN CITY.

MONTH.	Germans.	Bohemians.	English.	Irish.	Hungarian.	Swedes.	Italians.	Danes.	Total.
January.....	12	7	6	11	8				44
February.....	17	16	9	12	7				61
March.....	76	24	19	14	20		7	6	166
April.....	71	45	22	51	12		2	4	207
May.....	149	284	34	85	58	4	8		622
June	112	196	39	42	14		5	4	412
July	88	82	24	32	8				234
August	72	84	28	24	16	3			227
September..	60	72	38	32	16				218
October.....	244	156	47	35	14	8	6		510
November.....	277	119	47	39	31	4	8		525
December.....	113	42	22	34	14	2	16		243
Total.....	1,291	1,127	335	411	218	21	52	14	3,469

COMMUNICATIONS FROM ABROAD.

During the year the following communications were received here :

Circulars	126
Letters	402
Postal cards.....	482
Telegraph dispatches.....	257

Total..... 1,267

All of which received our attention, requiring the time and labor of the department.

Respectfully submitted,

H. M. HOLZWORTH,

Captain of Detectives.

STATISTICAL TABLES.

The following Statistical Tables show the result of the labors of the Force for the year ending December 31st. 1880, in detail.

SALOONS, HOUSES OF ILL-FAME, THIEVES, ETC.

	PRECINCTS.											
	First.	Second.	Third and Sixth.	Fourth.	Fifth.	Seventh.	Eighth.	Total—1880.	Total—1879.	Increase.	Decrease.	
Saloons	330	147	254	316	112	51	61	1,271	1,308	..	37	
Houses of ill-fame.....	40	1	7					48	54	..	6	
Inmates of same.....	80	2	8					90	129	..	39	
Assignment houses.....	8		2					10	25	..	15	
Prostitutes in rooms.....	75						2	77	48	29		
Supposed gambling houses..	9							9	12	..	3	
Thieves and suspicious per'n	34	58	9	11	4		4	120	110	10		
Resort for thieves.....	28		1					29	29			
Receive stolen goods.....	12							12	17	..	5	

OFFENSES—STATE—Continued.

	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sep.		Oct.		Nov.		Dec.		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Escaping from Workhouse ..																									1
Forgery ..	1								1				1				1				1				5
Fugitive from Justice ..					2	1	1					2					2						1		9
Grand larceny ..	1		6	1	6	4	3	1			5	3	5	1	3		4		5		6	1	6		60
Having in possession ob- scene model ..	2				1																				3
Having in possess'n obscene literature ..															1										1
Having in possess'n obscene pictures ..																	1								1
Horse stealing ..																	1		2		1				9
House-breaking ..																	1								2
Illegal voting ..																									6
Incorrigible conduct ..			3				6	1	4		5		4		2	3	6		2	3	3	1	2		48
Intoxication ..	3	1	1		1				4		3	1	3		3		3		1		1				27

OFFENSES—STATE--Continued.

	Jan.		Feb.		March		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Selling intoxicating liquors to minors	3		1																				2	6
Sending letter containing threats of injury to the person							1																	1
Shooting with intent to kill															1				1		1			3
" at " " "																								1
" " " "w'd	1									2	1													4
Stabbing " " "kill																	1							1
" " " "w'd	1								1				1		6		1							10
Threatening in menacing manner																								
Violating lottery law									1								1						1	4
" pawnbrokers law	1																						3	3
" rail road law	8		7	10	2												1							2
" street R. R. law										2			5	1	3		9		2		6			6
																			1					2

OFFENSES—STATE—Continued.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
	M F	M F	M F	M F	M F	M F	M F	M F	M F	M F	M F	M F	
Violating U. S. Rev. Law							1					1	2
Visiting House of ill-fame									2	1			3
Wrongfully using animals						1	1	2		1	2		7
Total	108 9	100 11	92 22	60 14	98 11	75 11	99 16	110 19	111 15	99 20	76 16	106 11	1,316

OFFENSES—CITY.

	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Totals
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Abusing family.....	6		7		2		4		9		8		6		6		2		5		1		5		62
Careless driving.....	2		4		1		4		3		3		4		2		6		4		1				34
Common beggar.....	1		2		2		2		1		2		2		1				3		1		2		22
" prostitute ..																	3		12		5				34
Destroying property ..	11		10		9		8		15		13		5		6		6		1		3		5		98
Disorderly conduct	28		50		37		80		24		49		42		38		53		6		23		29		528
Disturbance	34		39		19		42		55		34		47		62		45		7		49		27		567
Driving through funeral procession	1																								1
Fast driving					1				4				10		4		3		1		3				27
Gambling	4				1				1								7								13
Habitual disturber of the peace.....	1						1				1				1		1		2						12
Habitual drunkard.....	1																		1		1				5
Immoral conduct.....									5																5
Indecent "	4		4		2		3		5		6		10		4		8		2		3		2		100

OFFENSES—CITY—Continued.

	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Tot.
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Violating Bathing ordinance																									46
" Billiard "									3		12		15		8		7				2		1		4
" Bill poster "															1										1
" Bootblack "	1												2		7				4						17
" Bridge "			1								4		1				1								12
Viol'g Cabs & Hacks	2		2		1				4		2		2		3		2		3		1		1		22
" Dray "									3						1						1				5
" Employment "															2										2
" Exhibition "	5																								5
" Express "	2										2		1		2		4				3		1		19
" Fire "															1		1						1		3
" Fire arms "	1								1				3		1		1		1						11
" Fire telegraph "																					1				1
" Gift enterprise "																									2
" Harbor "															2		1								1

OFFENSES--CITY--Continued.

	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Violating hay ordinance.																									1
" Health	1		2	1	2		1	2	7	1	13	1	11		9		12	2	7				1	1	74
" Junk				2	12				1										1						17
" Market	5						1				3	1			1		1				1				13
" Music		1													1										2
" Newsboys																									4
" Park									3				8		3		1						1		18
" Peddlers	1			2	2				1		7		1		3	1			2		2				22
" Pound							2		5		6		5		2	2	1	2		1					28
" Property	2					5	12		9	1	2		2		2		6	1	4						46
" Public resort										1	1		1												4
" Railroad	30		6		11		8		12		4		10		9		13		2		9		3		117
" Sidewalk	11		60	3	61		27		31		33		17		9	2	3		19		1		7		234
" Street	4		7		1		9		2		4		2		4		2		3		10		2		50
" " railroad							6		2		1				1						2		1		14
" Sand'y liquor	1		1	2	1				3		5		3		1		1				1		2		20

OFFENSES—CITY—Continued.

	Jan.		Febr.		March		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Violating vladuot ordin'ce																			1		7				9
" waiter girl ord'e																									1
" water works or-																									
dinance.....																									3
Violating weights and																									
measure ordinance.....			10								3							1		2					17
Visiting Gambling rooms																		25							35
Visiting house of ill-fame					5		21		9				10		2		1	50	7	12		9			127
Total.....	351	34	407	72	438	70	452	62	431	62	475	71	466	95	465	75	554	161	485	63	875	47	304	36	6104

OFFENSES—CITY—Continued.
MISCELLANEOUS.

	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Desertion U. S. Army.....																	1								1
Insane.....			1			1		1	3		1						1		1		1		1		11
Total			1			1		1	3		1						2				1		1		12

OFFENSES—CITY—*Concluded.*
RECAPITULATION.

	Jan.		Feb.		March.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Total State cases.....	108	9	100	11	92	22	69	14	96	11	75	11	99	16	110	19	111	15	99	20	76	16	106	11	1316
" City cases.....	351	34	407	72	438	70	452	62	481	62	475	71	499	95	495	75	554	161	485	63	375	47	304	38	6104
Miscellaneous.....			1		1		1	3	3	1							2		1	1	1		1	12	
Total.....	459	43	508	83	531	92	521	77	580	73	551	82	598	111	575	94	697	176	584	84	452	63	411	47	7432

OCCUPATIONS.

OCCUPATION.	January	February	March	April	May	June	July	August	September	October	November	December	Total
Actors							1				1		2
Actresses										1			1
Agents	1	2	8		3	6	5	1	19	2	10	5	62
Architects			1									1	2
Auctioneers	1	1						1	1			1	5
Axle Turners	1												1
Bakers		6	2	2		5	6		2	3	1	1	28
Bankers							1						1
Barbers	5	11	5	2	4	3	2	11	7	6	5	5	66
Bar Tenders	3	4	5	1		3	4	7	4	7	2	4	44
Basket Makers			1		1	2		1	1				6
Beer Peddlers			2		1		4	1		3			11
Beggars		3	2	1		4	2	1		3			16
Bell Boys						1							1
Bill Posters						1							1
Blacksmiths	7	6	8	9	3	11	12	11	12	4	6	4	93
Boatmen	2	1	2	1	3	2	2	5	1		4		23
Boarding House Keepers							1						1
Boiler Makers	2	7	3		6	7	5	6	2	8	5	9	60
Bolt Makers	1	2		1	3			2	1			1	11
Book Binders						1	1	3	1	3			9
Bookkeepers	2	1	2	1	3		2	2	4	3	1	3	24
Bootblacks	3	2	1	6	3	5	3	12	3		3		41
Bottlers						1							1
Box Makers		2	1					2			1		6
Boot Crimpers	1												1
Brakemen						1		4	1				7
Brass Finishers		1	2	1				1	1	1		1	8
Brass Moulders					1								1
Brewers		1	2	2	1		1	1	2	3		1	13
Bricklayers	3	1		2	1	4	1	1	2	1	3	3	22

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
Brick Makers.....					1			1	1	2			5
Bridge Builders.....	1	1					1		1	1	1	1	7
Bridge Tenders.....					1								1
Brothel Keepers....			2	4	1		4		27	3			41
Brokers.....			1										1
Brush Makers.....			1				1	2	1	1	1		7
Builders.....			2	2						1	1		6
Butchers.....	11	6	14	4	7	11	13	11	11	7	7	10	112
Buffers.....	1							1	1	2			5
Cabinet Makers.....	4	3	1		2	2	2	1	3	1	1	4	24
Canvassers.....	1	1	2	3					1		2		10
Capitalists.....						1							1
Car Builders.....		1											1
Carpet Weavers.....					1						1		2
Carpet Cleaners....											1		1
Caulkers.....							1			1		1	3
Car Drivers.....						2					1		3
Carpenters.....	12	3	8	7	9	14	12	14	17	8	6	5	115
Carriage Makers.....		2			1		3						6
Carriage Painters....			1	1	1		2	1	1	2			9
Carriage Trimmers...												1	1
Cash Boys.....								1				3	4
Cattle Dealers.....				1				1			2		4
Chain Makers.....	1	1											2
Chair Makers.....			1			1		1					3
Chimney Sweeps.....									1		1		2
Chiropodists.....									1		2		3
Cigar Makers.....	1	3	2	3	3	3	4	7	4	2	3	5	40
Clergymen.....		1											1
Clerks.....	6	15	4	4	9	5	18	10	18	5	3	8	105

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January.	February.	March	April.	May.	June.	July.	August.	September	October.	November.	December.	Total
Clothiers.....									2				2
Coachmen		5	2		5		2	2	1	4	2		23
Coal dealers	1					1	1					8	11
Coal heavers											2		2
Coal miners			1										1
Coffin makers											1		1
Coffee roasters.....		1											1
Collectors.....				1	1							2	4
Commercial travelers							1				1		2
Commis'n merchants											1		1
Conductors			1	2									3
Confectioners	3	2			2			3	1	1	1		14
Constables	1										1		2
Contractors.....					2	3		2			1	3	11
Cooks	1		4	2	2		2	1	3	2		2	20
Coopers.....	3	4	1	6	5	2	4	7	4	5	8	4	53
Coppersmiths								1					1
Cow boys.....						6		1					7
Cutlers.....	1								1			1	2
Cutters	1											1	2
Deckhands				1		1	1		3	1	3		10
Detectives.....			1										1
Decorators			1										1
Distillers.....		1											1
Doctors		1	1	1		1							4
Draughtmen					1								1
Draymen					2	1		1			2		6
Dress makers.....	1									1			2
Drivers									1				1
Druggists.....				1					1	1		1	4

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January	February	March	April	May	June	July	August	September	October	November	December	Total
Dyers				2									2
Editors			2										2
Engineers	2	7	4	3	6	3	8	6	4	7	2		52
Engravers			1							1			2
Employment agents								1					1
Errand boys		3		1	3	1						2	10
Expressmen	1		4	2	5	6	3	4	4	1	3	5	34
Farmers	11	6	7	12	2	10	4	14	13	21	9	13	123
File cutters		1				1	1			1			4
File makers	1										1		2
Finishers		4	1		3	2					2	3	15
Firemen	1				2	2	1	2	5	5	2	3	23
Fish dealers						1		1					2
Fish peddlers	1		2	2	3			1		4			13
Fiorists											1		1
Foremen						1			1		1	1	4
Forgemen			2	1	1		1	1	1	1			8
Folders							1						1
Foundrymen		2	1					1					4
Frame makers					1								1
Fresco artists							1		1				2
Fruit dealers							2			1		2	5
Furniture dealers	1						1						2
Furnacemen							2	1					3
Gas fitters		1			1	1			1			1	5
Gamblers	4				2	1			12				19
Gardeners	1		2	5	4	6	2	3	4	3		1	31
Gaugers						1						1	2
Gamekeepers								1					1
Glassblowers					1		2						3
Glaziers				2					2				4

OCCUPATIONS—Continued.

OCCUPATIONS.	January	February	March	April	May	June	July	August	September	October	November	December	Total
Graders.....								1					1
Grainers.....					1		1		2				4
Grocers..	1	1	2	2	2		3	1	4	1	2	2	21
Grooms.....								1			1		2
Hackmen.....	4	3	7	7	11	4	6	6	4	10	2	3	67
Harness maker.....	1				2			1	1	1		1	7
Hammermen ..					1		2						3
Hay dealers.....			1										1
Heaters.....	1	4		2		1	1	1			1	2	13
Helpers.....	1	1	1		5		1					1	10
Hinge makers.....										1			1
Horse dealers.....									1			2	3
Horse jockeys.....									1				1
Horsemen.....	1			1			2	1					5
Horse shoers.....								1		1	1	3	6
Hostlers.....	8	4	6	6	3	3	4	5	2	4	6	7	58
Hod Carriers.....												1	1
Hotel keepers.....			1	1		1							3
Hotel runners.....						1							1
House keepers.....	17	40	49	31	34	41	58	42	53	40	31	20	456
House movers.....					1	1					1		3
Hucksters.....	3	1	2	1		2		3	6	1	1		17
Ice dealers.....						1	1	1					3
Ice peddlers.....			1										1
Iron workers.....		1		1	1	1	1		1	1			7
Janitors.....	1		2		1								4
Jewelers.....	1	1		1	3								6
Joiners.....				1									1
Journalists.....					2	1							3
Junk dealers.....		2	21	1	2		1					5	32
Laborers.....	120	117	118	130	141	131	106	138	128	142	104	74	1451

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
Lake captains.....					1	1							2
Lathers.....						1					1		2
Lamp lighters.....	1		1				1			1			4
Lamp makers.....								1		3			4
Laundresses.....		1	1								2		4
Laundrymen.....			1				2		4			1	8
Lawyers.....	1		1	5	7	2	7	2	6				31
Liquor dealers.....	1							1	1				3
Lecturers.....						1							1
Livery keepers.....				1	1	2	1			2			7
Liverymen.....		1	1										2
Lightn'g rod peddl'rs					1				1				1
Lithographers.....	2												3
Lottery dealers.....												1	1
Lumber dealers.....								1			1		2
Machinists.....	3	12	17	14	10	4	10	16	16	14	10	6	132
Malsters.....					1								1
Mantel setters.....						1							1
Manufacturers.....		1											1
Marble cutters.....					1							1	2
Marble polishers.....	1						1			1	1		4
Masons.....	1	4	3	1	2	3	3	3	5	7	4	4	40
Mates.....						1							1
Mattress makers.....				1			1	1		1			4
Mechanics.....	2	1		1	1		2		2	2		1	12
Merchants.....	2	1	6			2	3	2	2	2		1	21
Message boys.....					2		1			3			6
Midwives.....								1					1
Milk peddlers.....	2	1	2	4		3	2	1					15
Millers.....	2	2	1	1	4	3		1	1	1	1	5	22
Moulders.....	6	12	14	3	13	7	12	10	13	15	7	2	114

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January	February	March	April	May	June	July	August	September	October	November	December	Total
Musicians	4	5	2			1	2	3	4	1			12
Nail makers.....							1						1
News agents.....						1							1
News boys.....			1	2		3	3	5	3	2	4	1	24
No occupation.....	30	30	31	30	32	31	30	28	33	37	23	28	360
Nurses.....	1											1	2
Nut & bolt makers...	1	1		3	2	1	3	2					13
Oil refiners.....	2	2	1	1				1		1			8
Operators.....	3	1										1	5
Organ makers										1			1
Ornamentors.....				1									1
Oyster dealers.....											2		2
Packers					1		1					1	3
Painters.....	4	13	8	15	13	20	11	12	11	14	7	10	138
Paper carriers.....	2		2	1									5
Paper hangers				2	3	2	1	1	2		1		12
Paper manufacturers							4	1					5
Pattern makers.....							2						2
Pavers.....						1							1
Pawnbrokers.....	1												1
Peddlers	8	14	12	12	10	15	4	15	5	11	5	6	117
Picture framers.....						1							1
Planers	2							1		2			5
Plasterers.....	1	1	2	3	1	3	4		1	1	1		18
Poultry dealers ...	2												2
Policemen.....			1										1
Plumbers.....	1			5	2			1	3	2		1	15
Platers.....			1		1				1	1	1	2	8
Pistol makers				1									1
Photographers				1									1
Polishers.....	4	1			1	3			3	2	1	2	17

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
Pool sellers.....		1										3	4
Porters.....					1	2	2	2	2	2	1	1	13
Poets			1										1
Potters.....											1		1
Pipe fitters											2		2
Pipe manufacturers.....			1					1			1		3
Pressmen.....									1			1	2
Printers	4	3	6	4	6	3	13	6	9	7	5		66
Private watchmen....	2	1		4			1	2				1	11
Professors.....							1						1
Proof readers.....				1									1
Prostitutes.....	13	20	23	26	19	22	27	23	35	22	15	13	313
Publishers.....								2					2
Puddlers.....		2		4	2	2		2	3	1			16
Quacks.....	1												1
Quarrymen.....				2	2				1	1			6
Railroad men	7	2	7	4	9	7	7	11	18	10	10	2	94
Rag pickers.....	1			1									2
Rag peddlers		2					1	1		1		1	6
Real estate dealers..		3		1	2		1			1			8
Reporters			1	1	1	1			1	2	1		8
Restaurant keepers..			1										1
Rivet Heaters.....					1								1
Riggers.....										1			1
Rolling mill men.....	2	19	4	11	21	8	16	19	14	5	7	11	137
Roofers.....		3	1	2		3			4	2	1	1	17
Rope makers.....								1					1
Rubber manufact'rs..							1	1					2
Sailors	9	15	15	14	31	24	29	17	38	44	39	15	290
Sail makers				1			1						2

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total
Salesmen	3	3	2	4	3	1	4	3	3	2	1	1	30
Saloon keepers.	10	16	10	19	17	15	14	18	16	16	14	11	176
Sausage makers.....					1		1						2
Saw filers.....	1												1
Sawyers					1	1	1			3			6
Saw makers				1	1								2
School-boys	39	19	23	20	24	31	27	10	42	13	20	13	284
School-girls				1	1			1					3
School teachers.....				1				2	1				4
Scene shifters									1				1
Screw makers.....									1			2	3
Scroll sawyers					1								1
Seamstresses							3		1			2	6
Servants	3	12	8	14	8	6	7	11	5	6	9	5	94
Sewer builders.....									1				1
Sewing machine men	2	1	2	1	4				2		1		13
Ship carpenters			1	2		1		1	1	1	1	1	9
Ship keepers.....		2											2
Shoe makers	3	10	8	5	6	6	6	8	13	9	8	1	83
Shovel makers							1			1			2
Shewmen		2		1		1	1				1		6
Sign writers									1	1		1	3
Soldiers.	1			4	1			1					7
Soap manufacturers.			1										1
Speculators.....						1	1					2	4
Spoke makers	1												1
Spinners								1					1
Spring makers.....	2	4		1	1			1		1	1		11
Stave dealers								1					1
Stave jointers.....								1					1

OCCUPATIONS—Continued.

[illegible]

OCCUPATIONS—*Continued.*

OCCUPATIONS.	January	February	March	April	May	June	July	August	September	October	November	December	Total
Varnishers.....	1	1											2
Veterinary Surgeons	1				1								2
Vocalists.....										2	1		3
Wagon makers.....			4			2	2	1					9
Waiters.....	1	6	3	1			8	1		5	2		27
Washwomen.....			1	1		3	2			1		1	10
Watchmakers.....					1								1
Well diggers.....	2						1	1			1	3	8
Whitewashers...	2			1	6		3				2		14
White lead m'f'ers								1			1		2
Whittlers.....										1			1
Wire workers.....	5	3	3	4	2	1	5		2	3	1	3	33
Weavers.....				1		2			2	1	1		7
Total.....	497	596	623	598	653	633	679	689	843	666	515	460	7,432

NATIVITY.

	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Total.
Australia								1			1		2
Austria		1			1			1					3
Bavaria		1				1							2
Belgium	1				2				1	1			5
Bohemia	6	9	8	4	15	11	15	7	8	16	17	7	123
Brazil											1		1
Canada	23	27	14	21	23	29	24	33	38	26	24	19	301
China							2		3			1	6
England	31	42	28	31	32	32	38	40	52	25	31	30	412
Finland										1			1
France	1	2		2	2	1	1	6	2	3	1		21
Germany	67	69	79	81	87	67	77	86	69	74	70	65	891
Holland	2	3		1	1	1	1	1	3	2	1		16
Hungary	2		6	5	1	1	7	4	2	1	1	5	35
India											2		2
Ireland	84	94	95	110	127	133	113	132	138	136	98	81	1,336
Isle of Man					2								2
Italy		3	4		2	2	3	1	4	3	1	4	27
New Brunswick					1		1						2
Newfoundland					1		2						3
Norway					1	1				2	1		5
Nova Scotia					1		1			1		2	5
Poland	1	1	3	2	2	4	3	2	2	2	1	8	26
Russia		2	4				1		1				8
Scotland	12	14	14	12	11	22	10	8	11	7	9	6	136
South America											2		2
Spain			2										2
Sweden	1		1	3		1	1		7	1			15
Switzerland		1	1	5	2	3	4	4	2	4	4	1	32
United States	264	320	361	315	336	323	369	338	496	357	251	233	3,963
Wales	2	7	3	5	3	2	6	5	3	4	4	3	47
Total	497	596	623	598	653	633	679	669	843	666	515	460	7,432

SOCIAL CONDITION, EDUCATION, ETC.

MONTHS.	Social Condition.		Education.		Sex.		Males.		Females.		Color.		Total.
	Married.	Single.	Read and Write.	Unable.	Males.	Females.	Married.	Single.	Married.	Single.	White.	Colored.	
January.....	193	305	454	43	456	41	160	296	19	22	475	22	497
February.....	236	370	542	54	506	90	179	327	47	43	572	24	596
March.....	264	359	554	69	531	92	214	317	50	42	595	28	623
April.....	228	370	546	52	522	76	196	326	32	44	582	16	598
May.....	270	383	589	64	580	73	237	343	37	36	639	14	653
June.....	271	362	562	71	549	84	230	319	42	42	612	21	633
July.....	261	418	624	55	568	111	198	370	61	50	656	23	679
August.....	241	428	611	58	575	94	194	381	46	48	651	18	669
September.....	284	559	762	81	667	176	327	440	54	122	827	16	843
October.....	252	414	604	62	581	85	210	371	42	43	638	28	666
November.....	183	332	458	57	452	63	150	302	32	31	496	19	515
December.....	179	281	417	43	414	46	158	256	21	25	445	15	460
Total.....	2861	4581	6723	709	6401	1031	2353	4048	483	548	7188	244	7432

AGES.

MONTHS.	Under 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 and over.	Total.
January	4	51	66	159	102	76	25	11	497
February	2	28	107	206	119	90	30	14	596
March	5	30	80	223	143	88	36	13	623
April	2	36	73	188	159	84	33	23	598
May	7	26	83	212	161	97	41	26	653
June	12	37	78	184	133	115	49	25	633
July	5	34	76	257	137	102	51	17	679
August	4	29	93	241	133	98	47	24	669
September	6	45	98	312	191	119	50	27	843
October		29	81	228	160	94	54	20	666
November	5	21	56	168	138	88	30	9	515
December	3	19	61	159	114	70	27	7	460
Total	55	388	947	2,542	1,669	1,121	473	216	7,432

DISPOSITION OF CASES.

	January	February	March	April	May	June	July	August	September	October	November	December	Total.
Bail forfeited						1	3				1		5
Bound over to Court of Common Pleas....	7	12	7	4	7	8	5	9	5	15	12	14	106
Costs	21	53	57	68	78	103	80	75	90	76	47	18	766
“ and committed till paid.	1	6	9	2	3	1	3	5	3	3	70	79	185
Costs and city prison...					1	1				1	2		5
Costs divided between pros. and defend't....	1		1	2	3	3	6	1	1	1	1		20
Costs and House of Refuge and Cor ...	5												5
Costs and Workhouse..	3	2	7	18	10	13	10	13	17	5	5	6	109
Costs and W. H. and house suppressed ...									1				1
Committed to reform farm.....		1											1
Died in prison.		1										1	2
Discharged		2	3	1	2			2	1		3	5	19
Dismissed	35	41	34	42	64	67	70	81	77	64	32	47	654
Dismissed at costs of defendant		1											1
Dismissed at costs of prosecution.....	1	3				1		2		2			9
Dismissed for want of prosecution.....	2	4	2			3	4	2	3	1	3	1	25
Dismissed on payment of costs.....	18	22	25	12	24	37	21	17	24	26	9	15	245
Dismiss'd without costs		2				1	2			1	1	3	10
Fine and costs.....	83	112	168	134	133	156	133	167	213	170	38	26	1533

DISPOSITION OF CASES—*Continued.*

	January	February	March	April	May	June	July	August	September	October	November	December	Total.
Fine and costs and city prison ...								1		12	2		15
Fine and costs & committed till paid.	194	203	156	181	154	90	191	143	233	162	185	138	1980
Fine & costs & House of Ref. and Cor.	16	1	2		3		1			5	3		31
Fine & costs & house suppressed			1	2			2		2	1	1		9
Fine and costs & Work House	40	36	50	44	50	44	33	49	31	49	40	36	502
House of Ref. & Cor. ..	2	2	6	14	8	8	8	5	10	4	3	4	74
Nolle prosequi.	28	35	30	44	34	44	29	45	73	28	21	29	440
“ “ on pay't of costs.	3			5		2			1			2	13
Permitted to leave the city	5	3	7	5	16	12	14	7	13	11	1	2	96
Released on hab. cor. Probate Court												1	1
Remanded to authorities from abroad.	1	1	5	2	3			2	4	1	7	2	28
Remanded to U. S. authorities ..	1		3								1	1	6
Reproved & dismissed.				5	2								7
Sent to house of Good Shepherd								1					1
Sent to Infirmary						3					1		4
Sent to Retreat ..		1		1			2		1				5
Sentenced to city pris'n	25	39	45	60	48	30	47	38	40	27	21	23	443
Sentenced to Work H.	1	1	2		1								5

DISPOSITION OF CASES—*Concluded.*

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Turned over to County Sheriff		1			3	1	2						7
Turned over to friends				1	4								5
Withdrawn by pros. & costs paid	9	11	3	1	2	4	13	4		1	4	3	55
Undisposed of											1	4	5
Total	497	506	623	508	653	633	679	660	843	666	515	460	7,432

SENT TO WORKHOUSE AND HOUSE OF REFUGE AND CORRECTION.

MONTHS.	Workhouse.				Total W'h'house	House of Refuge and Correction.				Total House of Refuge & Correction	Total W'h'house & House of Refuge & Correction.
	Males.	Females.	White.	Colored.		Males.	Females.	White.	Colored.		
January	64	13	69	8	77	9	1	10		10	87
February	65	17	73	9	82	4		4		4	86
March	77	31	100	8	106	6		5	1	6	114
April	57	14	66	5	71	11	3	13	1	14	85
May	63	22	81	4	85	7		7		7	92
June	60	23	79	4	83	15		15		15	98
July	61	19	77	3	80	7	2	8	1	9	89
August	63	19	77	5	82	6	3	8	1	9	91
September	64	21	84	1	85	10	5	14	1	15	100
October	71	16	83	4	87	7	2	7	2	9	96
November	93	22	108	7	115	4		4		4	119
December	59	15	71	3	74	1	1	2		2	76
Total	797	232	968	61	1,029	87	17	97	7	104	1,133

LODGERS.

MONTHS.	
January	141
February	148
March	179
April	207
May	48
June	44
July	31
August	35
September	50
October	88
November	137
December	134
Total	1,287

FINES AND COSTS COLLECTED.

MONTHS.	Collected by Supt of Po lice.	Collected by Supt. of Work House	Total.
January	\$ 1,447 85	\$ 230 01	\$ 1,677 86
February	1,154 56	140 65	1,295 21
March	1,356 88	269 07	1,625 95
April	1,402 45	568 68	1,971 13
May	1,355 02	253 59	1,608 61
June	896 36	412 75	1,309 11
July	1,451 75	348 68	1,800 43
August	1,450 09	332 97	1,783 06
September	2,423 38	387 42	2,810 80
October	1,179 56	341 36	1,520 91
November	1,715 97	194 74	1,910 71
December	997 97	140 74	1,138 71
Total	\$16,830 84	\$3,620 65	\$20,451 49

PROPERTY REPORTED STOLEN AND RECOVERED.

Months.	Stolen.	Recovered	Per cent. recovered.
January	\$3,390 00	\$2,213 00	
February	5,296 50	3,119 00	
March	2,542 50	1,084 00	
April	1,534 50	671 00	
May	1,206 50	834 00	
June	1,732 05	1,359 50	
July	1,233 50	975 00	
August	1,262 30	923 00	
September	1,409 00	1,359 50	
October	4,323 50	2,152 00	
November	1,896 75	2,173 00	
December	2,353 80	7,095 40	
Total	\$28,780 90	\$24,913 40	86 56

FINANCIAL STATEMENTS.

POLICE FUND.

1880.		
Jan. 1. To on hand.....		\$ 8,308 11
Dec. 31. " taxes collected.....		142,072 75
" " music permits.....		306 00
" " dead animal contract.....		316 67
" " dog tax.....		4 00
" " warrants canceled.....		63 14
" " blanks sold.....		14 00
" " rents.....		100 00
Total.....		\$151,269 67
Dec. 31. By paid salaries.....	\$126,841 12	
" " " miscellaneous expenses.....	5,961 49	
" " " health department.....	12,673 57	
" " on hand.....	5,793 49	
		\$151,269 67

POLICE COURT FUND.

1880.		
Jan. 1. To on hand.....		\$ 844 83
Dec. 31. " Receipts.....		12,267 94
Total.....		\$13,112 77
Dec. 31. By disbursed.....	\$11,317 69	
" " on hand.....	1,795 08	
		\$13,112 77

CONTINGENT FUND.

1880.		
Jan. 1.	To on hand	\$3,681 14
Dec. 31.	" police clerk	2,365 96
"	" Fines	145 00
"	" witnesses	197 76
"	" transcripts	1,173 68
"	" cloth gain	71 80
"	" miscellaneous	335 18
Total		\$8,109 89
Dec. 31.	By disbursed	\$2,290 73
"	" on hand	5,829 16
		\$8,109 89

LIFE AND HEALTH INSURANCE FUND.

1880		
Jan. 1.	To on hand	\$3,496 29
Dec. 30.	To receipts	343 05
Total		\$3,839 34
Dec. 31.	By disbursed	\$164 25
"	" By on hand	3,672 09
		\$3,836 34

MUSIC PERMIT FUND.

1880.		
Dec. 31.	To issued 153 @ \$2.00	\$306 00
Total		\$306 00
Dec. 31.	By paid to City Treasurer.....	\$306 00
		\$306 00

REWARDS.

1880.		
Dec. 31.	To received for recovery of stolen property.....	\$155 00
" " "	" " " extra duty at weddings, balls, picnics etc	1,006 75
Total.....		\$1,821 75
Dec. 31.	By paid to members of the force	\$1,776 35
" " "	" " " Life and health fund	45 40
		\$1,821 75

COUNTY WITNESS FEES.

1880.		
Dec. 31.	To receipts.....	\$988 80
Total		\$988 80
Dec. 31.	By paid to members of the force	\$791 04
" " "	" " " contingent fund	197 76
		\$988 80

CLOTH ACCOUNT.

1880.		
Jan. 1.	To on hand	\$970 50
Dec. 31.	To purchased during year... ..	1,444 18
" "	To gain	71 20
Total.....		\$2,485 88
Dec. 31.	To issued... ..	\$1,764 80
" "	To on hand.....	721 08
		\$2,485 88

REMARKS.

By a comparison with 1879 it will be seen that our finances are in good condition.

Total expenses for 1880 are \$132,802.61 which is in all probability considerably less than that of any other city of our size and population in the United States. All bills contracted during the year are paid and we have in City Treasury at close of the year a credit balance of \$5,793.49. Our expenses in 1879 were fourteen thousand five hundred dollars less than any year since we have had a Police department in the city.

Our expenses in 1880 are only \$1,803.28 more than in 1879, and during the year we have put up seventeen miles of telephone wire and connected all stations with headquarters, and have been obliged to pay from ten to twenty per cent. more for supplies than in 1879 — while our coal bills are more than double.

Our Contingent Fund is yet small, but it is healthy and shows a gain of a trifle over fifty per cent. during the year. No deaths have occurred in the force during the year and as a consequence our Life and Health Fund shows a gain. Our Cloth Account has been a success and our men clothed at a much less expense than the average citizen.

We respectfully ask an examination of our Financial statement by the members of the honorable city council.

LIST OF MERCHANT POLICEMEN

APPOINTED DURING THE YEAR 1890.

NAMES.	WHERE STATIONED.	DATE OF APPOINTMENT.
Geo. E. Keirtland.....	Hay Scales, 18th Ward	Feb. 12
Philip Siegrist.....	Central Market.....	" 12
Chris Dietrich.....	Hay Scales, Detroit st.....	" 18
Wm. Melbinch.....	" " Hay Market.....	March 1
Geo. Ingham.....	" " Wiley st.....	" 8
James Kahoe.....	South Side Park.....	" 16
James Welhoff	Lake View Park.....	April 1
J. Hartmiller.....	St. Mary's Church.....	" 7
Joseph Schill.....	" "	" 7
John Hanbrich.....	Burton st. Cemetery.....	" 7
Chas. Stribing.....	St. Stephen's Church.....	" 7
August Hohler.....	" "	" 7
J. E. Pooley	Woodland ave. st. R. R.....	" 14
James Grady.....	" " "	" 14
Geo. Warner.....	Port Warden.....	" 21
John Kirby	Harbor Master	" 22
L. D. Cottrell.....	Pound Keeper.....	" 26
James Clark.....	Fifth Ward Market.....	" 28
L. D. Hudson.....	Church st.....	May 5
H. Richert	Brewers Association	" 12
Thomas Riddles.....	Eighteenth Ward Market.. ..	" 19
C. A. Lewis.....	Seneca st. Bridge	" 19
Chris. Blank.....	West Side Market.....	" 20
Wm. Whalan.....	Ontario st.....	" 20
Edward Whalan.....	Cleveland Provision Co... ..	June 8
G. B. Erwin.....	Base Ball Grounds.....	" 21
W. McIntyre.....	Viaduct	July 17
Thos. Gorman.....	Electric Light Co.....	August 10
John Crosby.....	" "	" 10

LIST OF MERCHANT POLICEMEN—*Concluded.*

NAMES.	WHERE STATIONED.	DATE OF APPOINTMENT.
J. E. Erwin.....	Viaduct .....	.. .August 11
John Madigan.....	Front st.....	.....Sept. 1
C. C. Miller.....	Viaduct.....	..... " 6
C. O. Klaus .....	" .....	..... " 8
H. Roemer.....	Woodland Cemetery.....	..... " 18
John Watson.....	Thos. Quayles Son's Ship Yard....	..... " 22
G. B. Erwin	Superior st. R. R. ....	.....Oct. 29
Andrew Burtzhard.	Walworth Run Bridge.....	.....Dec. 29

CENSUS OF THE CITY OF CLEVELAND, OHIO.
AS TAKEN BY THE POLICE FORCE DURING JANUARY 1881.

Census.	1st Precinct	2d Precinct	3rd and 6th Precinct	4th Precinct	5th Precinct	7th Precinct	8th Precinct	Total
No. Houses.....	2,309	3,479	7,491	6,222	3,877	3,799	1,976	28,653
" Inhabitants.....	16,514	21,049	45,392	37,464	19,779	16,025	11,190	167,413
" Hotels.....	18			12			1	31
" Churches.....	14	13	43	24	15	18	11	138
" Schools.....	2	9	31	21	14	13	8	98
" Hospitals.....	1	1	3			2	1	8
" Medical Colleges.....	1	1	1					3
" Cemeteries.....			4	3	2	1	2	12
" Orphan Asylums.....			3	1		1		5
" Public Halls.....	21	7	8	24	10	13	1	84
" " Buildings.....	7	6	10	9	4		9	45
" Wholesale Dealers.....	256	11	4	20	14		7	312
" Retail ".....	388	330	506	527	68	118	133	2,070
" Manufacturers.....	394	96	137	266	103	38	52	1,086
" Foundries and Iron Works.....	27	3	4	5			1	40
" Rolling Mills.....	1	3		1			6	11
" Livery Stables.....	29	4	11	8	3	7	4	66
" Ship Yards.....	1			3				4
" Lumber Yards.....	26	3		2			1	32
" Vessels at Docks.....	58			108				166
" Blocks occupied by Tenants, Manufactories etc.	446	17	26	132	5		8	634
Census January 1881.....								167,413
" " 1880.....								158,207
Increase.....								9,206
Houses 1881.....								28,653
" 1880.....								27,599
Increase.....								1,054

ANNUAL REPORT

OF THE

Telegraph Department,

FOR THE

YEAR ENDING DECEMBER 31st, 1880.

ANNUAL REPORT OF THE POLICE TELEGRAPH DEPARTMENT.

CLEVELAND, O., January 1st, 1881.

To the Honorable Board of Police Commissioners—

GENTLEMEN :—The following is a report of messages transmitted over the Police Department telegraph and telephone wires during the year ending December 31st, 1880, and on record at this office :

	Telephone Sent.	Telephone Received.	Telegraph Sent.	Telegraph Received.	Total.	Average per Day
January			523	139	662	21½
February			575	173	748	25½
March			507	142	739	23½
April			506	146	742	24½
May			648	148	796	25½
June	8	13	559	123	703	23½
July	6	14	318	81	419	13½
August	9	10	182	90	291	9½
September	6	3	146	76	231	7½
October	14	33	194	81	322	10½
November	9	5	200	74	288	9½
December	17	45	179	71	312	10½
Total	69	123	4,717	1,344	6,253	17½

The telephones were introduced at Head Quarters and the various station houses during the latter days of May, and since the first of June the record of them has been kept. The lines were in a fair working condition the year round.

Respectfully submitted,

EMIL F. SHULTZ,

Tel. Opr. Head Quarters.

PROPERTY REPORTED STOLEN AND RECOVERED FOR SEVEN YEARS.

YEAR.	STOLEN.	RECOVERED.	PER CENT. RECOVERED.
1874.....	\$35,559 83	\$17,856 57	50.75
1875.....	50,109 77	29,273 35	58.41
1876.....	34,762 72	24,055 22	69.20
1877.....	37,677 97	30,052 60	79.76
1878.....	29,731 43	23,595 95	80.33
1879.....	21,068 25	13,075 25	62.06
1880.....	28,730 90	24,913 40	86.56

COST OF POLICE DEPARTMENT FOR THE PAST EIGHT YEARS.

1873.....	\$158,299 18
1874.....	162,770 28
1875.....	168,302 68
1876.....	152,508 30
1877.....	149,459 38
1878.....	145,134 54
1879.....	130,999 23
1880.....	122,802 61

Finally, the Board take a just pride in commending this Report and accompanying statistical tables to the consideration of the Honorable City Council and citizens generally, confident that a perusal will convince all that the affairs of the department under its charge have been faithfully and economically administered.

CONCLUSION.

The year covered by this report includes the October State election and also the exciting times attending the Presidential election in November. Both political parties held large mass meetings while the N. O. Fair and races attracted crowds of people to the city.

We have been obliged to keep a detail of eight men on special duty along the river during the entire season, as trouble was anticipated along the docks.

This weakened a force already too small and we have been much embarrassed at times, for want of men.

Under the circumstances it is with great pleasure that we can report to your honorable body that our citizens have lost but little, by burglars, pickpockets or thieves.

At one political meeting held in a neighboring city in November more property was taken by pickpockets than has been lost in our city in two years.

It will be noticed that the number of arrests made in 1880 is somewhat larger than in 1879, but no larger than is in proportion to our increase of inhabitants. During the year two entirely new but important items of duty have been assigned this department — one the taking of an Annual Census of the city, the other the keeping a daily record of the time all street lamps are lit and extinguished. The first census was taken about January 1st, 1880 by the "day men" on duty and published in our Annual Report for 1879 and included number of inhabitants, houses, churches, schools, manufactories, etc. Much unfavorable comment was made regarding this census, as it showed a population of one hund.

red and fifty eight thousand two hundred and seven, while many people claimed a population of one hundred and seventy-five thousand or over.

The Federal census was taken during the summer and showed a total of one hundred and fifty-nine thousand four hundred and four. We have again taken the census about Jan. 1st, 1881, with more valuable statistics which are made a part of this report and to which we respectfully call the attention of your honorable body. The daily report of time of lighting and extinguishing street lamps is now systematized to such an extent as to be entirely satisfactory, but it is quite an amount of work and takes time.

On Sept. 6th last a committee was appointed by your honorable body with authority to "enquire into the manner in which the business of the Police Court and Police Department is conducted". This committee examined a great number of witnesses and on the 22d day of November made a report to the City Council. As far as this report relates to the Police Court the Board of Police Commissioners have no comments to make, as they have no control over the Police Court or its officers and are not in any respect responsible for the management of the court or the conduct of any of its officials, but the report regarding the Police Department seems to require a few words from the Board to enable the City Council to look at the subject correctly. Your committee reports

1st, "That detectives are sent into other States in pursuit of criminals, upon information received from the authorities of other cities."

In answer to this the Board would most respectfully state that in accordance with an opinion from the City Solicitor dated July 19th, 1880, this practice had been strictly prohibited for four months prior to the date of the report of your committee and that during that four months the authorities of three neighboring towns had made most earnest appeals for officers and would pay any price for their services, but all were refused and

2d. Your committee report

"We believe the rewards offered are the principal inducements upon which action is taken by the department in such cases, and that these rewards are paid by the parties interested and are distributed by the Board of Police Commissioners to the superintendent and detectives."

In this connection it may not be uninteresting to read a full statement of all rewards paid the entire force for the recovery of stolen property during the year 1880.

To the detective force one hundred dollars, an average of ten dollars each, which will not pay one half of the necessary incidental expenses of the detectives while looking up cases and for which no charge is ever made.

During the year one patrolman has received fifty dollars and another five dollars making a total of one hundred and fifty five dollars to the entire force.

The superintendent, seven detectives, captains, lieutenants, sergeants and one hundred and twenty-one patrolmen have been so unfortunate as not to receive one cent. With this statement we leave the subject in the hands of your honorable body, knowing that you will readily see that the members of our force who have worked for "rewards only" have been poorly paid.

The year just closed has been one of many that has taxed our force to its utmost capacity. Besides, the city is growing rapidly, its commerce and population increase every day, and the large territory embraced in our limits demand an increase of our force. We now have one patrolman for every seven hundred and fifty inhabitants, but the number of inhabitants is estimated at ninety-three thousand in accordance with the Federal census of 1870.

We now have a population of one hundred and sixty-seven thousand and a natural increase of at least five hundred per month, which would give us an increase of about one hundred men to our force.

A comparison with the departments of the following cities will show that we have less men and at a less cost:

Washington, D. C., population 178,000, has 229 miles of street—238 policemen, at a cost of \$302,000. Detroit, Michigan, population 117,000, 250 miles of street—175 policemen, at a cost of \$135,000, 3,922 arrests. Newark, N. J., population 137,000, 177 miles of street—164 policemen, at a cost of \$133,000, 4,191 arrests. Buffalo, N. Y., population 154,000, 320 miles of street—192 policemen, at a cost of \$222,000, with 6,697 arrests. Cleveland, O., population 167,000, 424 miles of street—161 policemen, at a cost of \$131,000, with 6,549 arrests.

Buffalo is nearest in size to Cleveland of any city mentioned, and we respectfully ask a comparison, as it will be seen that we have 13,000 more inhabitants, 104 more miles of street, 31 less men, have made 148 less arrests, and at a cost less \$91,000. It is utterly impossible for us to do justice to many parts of our city with our present force. For instance, take Day Beat No. 1, 6th precinct: all the territory of the 14th Ward, with a population of about 10,000, and has within its limits the largest oil, acid and chemical works in the world: Day Beat No. 2, same Precinct—all the territory of the 15th Ward, with a population of about 6,000 scattered from Wilson avenue to city limits; Day Beat No. 1, 7th Precinct—all the territory of the 16th Ward, with a population of about 5,000; Day Beat No. 2, same Precinct—all the territory of the 17th Ward—population about 4,500; Day Beat Nos. 1-2-3 of 8th Precinct—all the territory of the 18th Ward, with its great iron works and a population of about 11,000. All the above beats are supposed to be patrolled by one man each, when it is utterly impossible for any one to walk over one-half the territory in twelve hours.

The business portion of the city in 1st Precinct comprises all the territory from Erie street to Cuyahoga river and has within its limits the principal stores, banks, depots, offices, etc.,

of the city, with many millions of property, is patrolled daily by only fifteen men.

The west side of the river is no better protected than the east side, and the Board of Police Commissioners respectfully but earnestly ask your honorable body for enough funds to pay for a reasonable increase of our force. We have to congratulate the members of our present force for the great amount of work done in 1880 ; but with an increased force are confident much more could be done in that most desirable direction, " the prevention of crime."

By order of the Board,

THOMAS KING,

Secretary.

THE
ANNUAL REPORT
OF THE
HEALTH DEPARTMENT
OF THE
CITY OF CLEVELAND.

For the Year Ending December 31, 1880.,

BY

W. B. REZNER, M. D., *Health Officer.*

REPORT OF THE HEALTH DEPARTMENT.

To the Honorable Board of Health:

GENTLEMEN—I have the honor to submit for your consideration the annual report of the Health Department for the year 1880.

It is a subject of congratulation that after trying the experiment of placing the interests of the Health Department secondary to that of the Police, and under the Supervision of the same Board, the Legislature by their action restored the law existing prior to 1874, by which Act the Health Department was placed in the hands of a Board composed of Medical men who, from education and calling must of necessity be eminently qualified to study the subject of sanitation in all its manifold shapes and suggest the proper remedies and preventatives.

The present Board have been in control of the Department but eight months of the past fiscal year during which time they have instituted and carried into effect many needed improvements. It would appear to have been the prominent idea of the Board of Police while having the control of the Sanitary department of the government of the City to see with how small an amount of funds it could be made to exist.

The result of which, was, to cripple the present Board at many points where actual necessity existed for a large expenditure of money and means. At various times and places accurate

computations have been made in vital statistics showing the results of a too rigid parsimoniousness, in the use of means known to science in the prevention of disease, lives lost that would have contributed manifold more to the wealth of the community than the sum necessary to have furnished all needed sanitary prevention, not taking into the account the moral influence and standing they would have added to the community in which they would have lived.

The appended mortuary tables show the deaths for the year 1880 just closed, to have been 3,156, in addition to which there were 154 still-borns, having had no independent existence as beings, can and should not be enumerated as deaths, with these omitted and a population of 160,458 would give a death rate of 1.96 per cent or 19.6 deaths in each thousand, this gives an increased death rate over that of last year which is accounted for in the difference in population as given by the Government enumerators and the estimated 175,000 of last year.

Out of 1,199 deaths from zymotic diseases we find 339 that were under one year, and 167 under two years; and from all causes under one year 956 or nearly 39 per cent of all the deaths that have occurred during the year. This alarming percentage of deaths during early life is mainly to be accounted for upon the well authenticated fact based upon statistics, that in all of our large cities among the wealthy class who have at their command all the means required to give and furnish all the attention to their children that health and comfort may demand, the birth record shows a constant decrease, consequently this percentage arises from the records of the middle and poorer classes and mainly from those who have but recently entered the country and are striving by industry and strict economy, to gain a home, who through principles of false economy are attended frequently by these having but limited knowledge of the necessities or requirements of the sick, who are well represented by the following report of a special committee to the Board.

REPORT TO BOARD.

The following report from the special committee on the matter of securing the complete registration of persons practicing medicine, surgery or midwifery in the city was presented.

We desire to present for the careful consideration of this Board, a subject of great interest in many ways as a public health measure.

First—There are on file in this office reports made by physicians and others which should receive our closest attention. There are reports of deaths written by persons so illiterate that they are not able to fill out a blank correctly or intelligibly. Many certificates have been made by persons who have no right under our statute to practice medicine or obstetrics, nor to certify as to questions of life and death. Why have we a law if it is neither observed by the community, nor executed by those in authority? There are many persons here who are, as they aver, performing the offices and duties in the various departments of medicine, who cannot read nor write any language intelligibly. Among these may be mentioned many midwives. In this branch of medicine often occur cases requiring accurate anatomical knowledge, and prompt and decisive management for the safety of mother and child. In this practice, also, often arise questions as to the treatment of puerperal, which to be well managed must be seen early, and upon the condition recognized, often depends the life of the mother and her offspring. The neglect of these conditions no doubt adds materially to our mortality list, and on this account should receive our attention. Again, this class of persons take on themselves the office of prescribing for children, for any one can give medicine to children. "She is good in the treatment of children" is often said. "The poor little

things need simple medicine," and it might be added, given by simple people. This notion has sent thousands to a premature grave. Think that by our reports on file here, nearly one-half of our mortality occurs under five years of age. If you consider for a moment you will see, that in the nature of things, this practice requires more and better observation and better knowledge than any other branch of medicine, yet the children must suffer at the hands of ignorant pretenders, because they are not able to defend themselves. Among this class the records also show a greater number of still births reported in proportion to the number of their cases, than among the intelligent and honest members of the profession. I need not suggest all the reasons for this disparity.

In some of the wards the number of fatal cases among children are vastly more numerous than in others where it is hard to determine what makes the difference. The attention of city physicians should be directed to this subject, and see if any cause can be given for such conditions.

Again, the community is now and has been sorely afflicted by a lot of medical tramps who are wholly unqualified to perform the important office of physician, surgeon or obstetrician. The unfortunate, falling into their hands, often have to pay the penalty with their lives. This class includes those who, without preparation or education, have purchased a certificate from some mill to practice medicine; those who were, a short time ago, porters, hostlers and fishmongers, recently doing a thriving business with a hand-cart crying "Fresh fish;" those who sit in office and send out circulars to all creation, promising to cure any disease which may be mentioned; those who have been unfortunate in dark ways, and escaped the penitentiary, and now take this way to make a living; those, the great skill of whom is never known until it is proclaimed in the columns of the high-toned city paper or religious weekly sent forth for the instruction and edification of their patrons; those who go into a fit and by some wonderful spiritual power cast a horoscope over the present condition, the past life, and future pros-

pects of the patient. This knowledge is often said to be derived from some dead Indians, who, when living, knew less, if possible, than the present pretenders and the greatest blessing he ever conferred on humanity was on the day that he died. There is also a class of self-constituted doctors, who work wonders with that mysterious agent, electricity. The application is good for fat people, for the lean, for the nervous, for the want of nervous power. He must be a doctor to know so much, therefore he calls himself a doctor, and straightway he is one, and hangs out a sign and advertises in the papers the wonders in his cures. There are those who cure by the wonderful touch of their polluted hands, by the potency of a power which they alone possess, gained without knowledge or study. There are those who perform wonders by their skill in rubbing down their patients. It would be a great deal better if such a one had a title, so he puts Dr. Q. or Dr. Q., M. D. on his door plate. Let this array suffice to show the enormity of this sort of pretension we have here in the face of wholesome laws passed by the Legislature for the welfare and protection of the people. In the other learned professions there is manifestly more respect paid to the laws and customs for the admission of candidates, their honors and responsibilities. Although it must be acknowledged that their portals have been also too poorly guarded, and the rules for admission so loosely enforced, that many unworthy have crept into them. But in the medical profession any medical tramp or charlatan can come, open an office, and by bragging and advertising impose on the unwary without let or hindrance, and in the face of the law. The best part of the laws which were on the statute books of the State were codified by our commission out of existence without ever having been repealed by the law-making power.

Now in view of these few considerations of the many reasons which might be urged by an enlightened public policy, for the good of the community, for the sake of the public health, for self-respect and public decency, to prevent danger to and death of the afflicted, your committee recommend that this

Board of Health respectfully suggest that the Ohio Legislature pass a law covering these suggestions.

Report received and adopted, and the secretary instructed to forward copies to members of the Legislature.

Of diarrhoeal diseases there were 104, showing a decrease of 162 since last year, the subjects being mostly children, the improved dietetics of the last few years contribute largely to these favorable results, together with a low average temperature during the summer months.

Of scarlet fever there were 309 deaths, an increase of 142 over that of last year; there has been an increase in the number of deaths from this disease for the last three years. The greatest number occurring in the Sixth, (53), the Twelfth (46), the Thirteenth (29), the Fifth (28), and the Eleventh (24), while the wards most affected last year were the Seventh, Sixth, Fourth and Fourteenth, showing conclusively that the disease is not dependent upon any miasmatic influence for its propagation, but is due to a specific poison *sui generis* and sweeps over a given section and ceases for want of a subject. All of the Wards where it was the most severe joined those of last year. In the Sixth it made its appearance late in the fall and continued over into this year and completed its course during the early months of the year.

We had 207 deaths from diphtheria, cases having occurred in all the Wards in the City, and whether of any significance or not, the greater number have uniformly existed in the same Wards in which the scarlet fever was the most severe, but it has been less fatal in all but the Fourteenth in which it exceeded it by one.

It is a subject for regret that wood for the paving of streets has been so freely used in the past. In their present half decayed condition, moist either by rain or the sprinkling cart, what otherwise would have been our beautiful health-giving avenues are little better than cess-pools of miasm and death. Too much care cannot be bestowed upon the selection of proper material for the paving of streets. A large proportion of those paved

with wood will require repaving at once with less perishable material. A more frequent removal of the accumulated filth from the streets and alleys, composed largely of animal defecation exposed to the rays of the sun, gases must arise that are no small factors in the death percentage of the City. While it gives me pleasure to refer you to the very full and comprehensive report of our efficient sewer inspector, my duty requires me to call your attention to some defects in our sewer construction and the importance of immediate correction. The attention of those having charge, to the evils arising from pressure of the wind into the mouth of sewers emptying into the lake, forcing the gases contained in them through traps into dwellings connected, has at different times been mentioned by my predecessors but without avail. That some plan should be devised and executed is apparent from the frequent complaint of noxious gases entering buildings provided with the most approved traps. That attended with the least expense and supported with ample proof of its effectiveness is that of replacing all manhole plates with those that are perforated, so as to allow all gases generated to escape freely into the atmosphere where by combination it becomes so diluted as to cease to be noxious. It is apparent that some of the best sewered portions of the city are suffering from miasmatic diseases disseminated from this concentrated gas pressure in the sewers.

Of the necessity of providing sewerage for Walworth Run the different departments of the City Government have been frequently notified, and it is a matter of surprise that a work of so much acknowledged and vital necessity to the public should be so long neglected with what only seems to be an attempt to shift the responsibility from the Council to the Board of Health. Their opinion of the necessity and advisability of the work is clearly set forth in their report to the following resolution of the Council submitted for their action.

RESOLUTION BY MR. HOFFMAN.

Whereas, The present condition of Walworth Run is such as to create a feeling of uneasiness and fear on the part of our citizens, to whose attention it is forcibly brought by the stench which at times springs from its filthy surface, and is wafted over the city by southern winds, and

Whereas, All efforts heretofore made to abate what is a recognized and pronounced nuisance, affecting the comfort, if not the health, of the entire community, have, so far as any result is concerned, been entirely futile, and

Whereas, It devolves upon the City Government to promptly recognize the existence of such evils and to as promptly suppress them; therefore, be it

Resolved, In the opinion of this Council, the duty of thoroughly examining this source of terrible evil, and devising means for its immediate suppression devolves upon the Board of Health ; and

Resolved, That said Board of Health be and it is hereby most earnestly urged to prosecute such examination into the causes of the stench arising from said Walworth Run, and report to this body its findings in the premises, and to report further, whether in its opinion such stench is detrimental to the general health and well being of community, and to present a feasible, practical and efficient means of remedying the evil ; and

Resolved, That in the opinion of this Council the abatement of this nuisance should be had at once, before the heat of mid-summer shall add to its offensiveness and power of evil." In answer to which the committee of the Board of Health made the following report :

"That, having examined carefully the sources and causes of Walworth Run, they have found conditions which they consider unfavorable to health. High up in the ravine which leads into Walworth Run there are many drains from private houses, factories, woolen mills and slaughter houses, which convert these

drains into sewers, bringing along their putrefying contents, exposed to the atmosphere and heat of the sun, and in this way giving off their emanations, which are carried by the currents of wind through this whole locality. Further down these rivulets have been dammed in the fall and winter to make ponds in which ice is frozen in the winter and collected for summer use. Then in the spring the dams are cut and the water escapes, leaving an amount of accumulated sediment to dry out and undergo all the degenerating changes possible, in these places all the conditions of malarial diseases are generated, the worst of which is inodorous, and its presence cannot be detected by smell. The decomposition which takes place when animal and vegetable matter is exposed to heat and moisture is most deleterious to health. The business places on Walworth Run expose these conditions in their worst form. The slaughter houses, with few exceptions, are poorly constructed for doing that kind of business. The way in which the business is conducted is very objectionable. The premises and surroundings become saturated with filth. Here we find the accumulation of years ready to give off their death-dealing products.

It is very questionable whether the meat may not become contaminated by the gases arising from such premises. Fresh milk or fresh meat exposed to an atmosphere filled with the products of decomposition of animal matter soon becomes so affected as to readily undergo the same changes, so places where such business is done should be well kept. The most of the places on Walworth Run are not so kept, nor can they be, with the present condition of things, and with their present surroundings. All the places on Mill street, south of Walworth Run, are objectionable, on account of construction. With their yards always in a filthy condition, they all permit the escape of offal into the run by a natural descent, along with the waters of the springs and such as are used in the process of slaughtering and cleansing the premises. The location of these places renders it easy to do the business properly, by having a large sewer running through the ravine, with which each estab-

lishment should be connected with such construction of building as to render it possible for all the blood and offal to be caught in air-tight tanks, so they could be removed at once and not be permitted to contaminate the water course and river below.

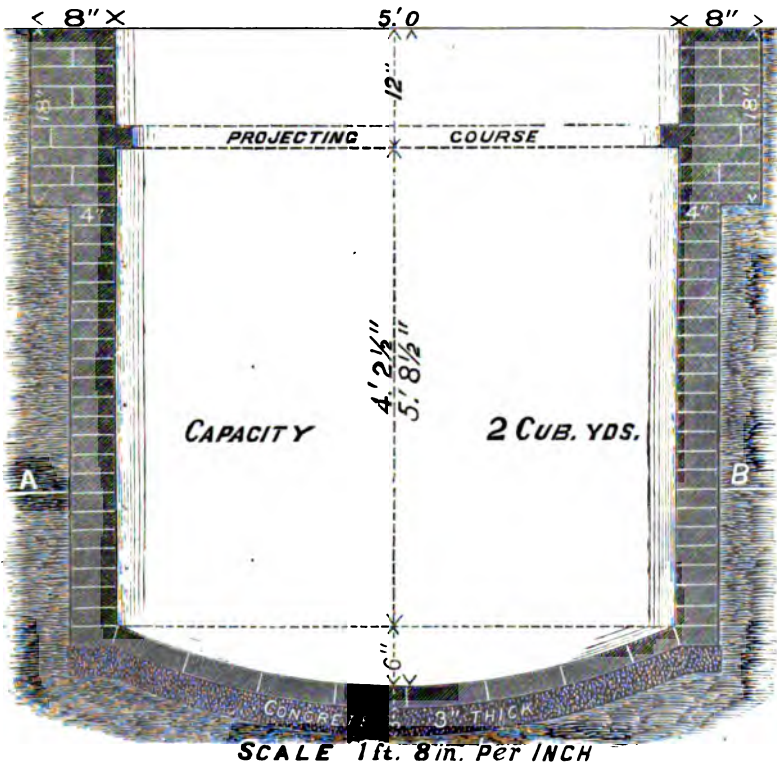
The same reasons apply to houses on Walworth Run below. All along there the banks are necessarily soaked with this material undergoing decomposition, and must be unhealthy. In addition to these sources of bad condition, Walworth Run receives the contents of several sewers emptying into it at various points, which add their contaminating influences to the noxious contents on its way to the river: so that the river below this point must contain a large amount of bad material, which being exposed to the heat of summer, cannot but produce unhealthy conditions along its course. In view of these conditions we believe that the only way to avoid the bad consequences to the health and comfort of the people is to have Walworth Run converted into a large and sufficient sewer. But, as this part of the business does not belong to the Board of Health, but is the duty of the Council, we would therefore recommend that the Council take the necessary steps to sewer Walworth Run and its tributaries."

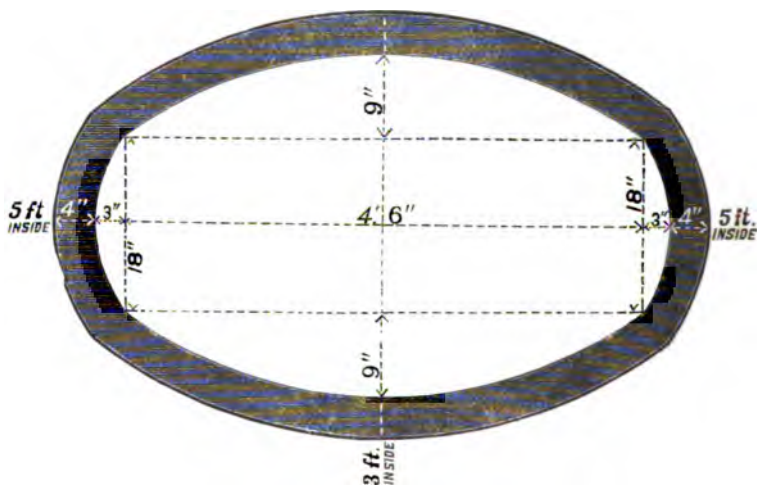
The contemplated locating of the stock yards on the run west of Gordon avenue will be an additional cause for some early action. The large amount of filth naturally flowing from such an establishment, exposed to the rays of the sun, and a scanty supply of water for nearly two miles, adds to the already existing accumulation of that filthy stream. Who can say how great a factor it may become in the production of zymotic diseases, and to what extent the large per centage of deaths are due to it? It would seem a matter of policy founded upon correct hygienic logic, that the proper authorities would give it their earnest and efficient attention.

It is a matter of congratulation that the Board have secured a contract at greatly reduced rates for the removal of night

soil for the future. It is a species of compulsory tax, that at best is very oppressive. Any amelioration will be received with profound satisfaction by the people. The frequent complaints that the vaults were only full of water when they required emptying, induced the Board in October to adopt the following resolution and plan :

Resolved, That the Health Officer be instructed to compel all new privy vaults to be constructed in accordance with the plans recommended by the Committee on Night Soil, and adopted September 2d, 1880, by this Board, as proper in form, size, material, etc., and plans to be kept on file at the Board of Health office.



CROSS-SECTION A-B

The vault is estimated to within twelve (12) inches of the top, or to the underside of projecting course. All vaults to have three (3) inches of concrete laid underneath bottom of the vault, or before the bottom brick are laid. All brick work to be plastered on the outside with one-half ($\frac{1}{2}$) inch of cement. Brick to be of hard burnt (so called) sewer brick and laid in fresh Portland cement.

Depth of vaults, below projecting course, and number of brick for each will be : With a capacity of two (2) cubic yards and measured in center of vaults, 4 feet $8\frac{1}{2}$ inches deep, 830 brick. Three (3) cubic yards, 6 feet $11\frac{1}{8}$ inches deep, 1,082 brick. Four (4) cubic yards, 9 feet $2\frac{1}{2}$ inches deep, 1,334 brick ; if measured on side walls and under projecting course six inches less. In shape elliptical, five (5) feet by three (3) feet inside of brick work.

(Or, with a capacity of two (2) cubic yards, measure one (1) foot from surface of the ground to underside of projecting course : Add 4 feet $2\frac{1}{2}$ inches or 5 feet $2\frac{1}{2}$ inches from ground surface, will give measurement of side walls, to which add the depression of 6 inches in the center of convex bottom, and you have total depth of vault, 5 feet $8\frac{1}{2}$ inches.

Vaults constructed upon this plan have given good satisfaction and are effectual in preventing the influx of subsoil water and the escape of any contained fluid, thus allowing their construction much nearer a well of water without contamination. A large number have been constructed in place of the highly objectionable wooden structures heretofore used.

While a number of our sister cities have been severely visited with small pox, it has been our good fortune to escape without a fatal case. During the first of the year a sporadic case made its appearance, and was sent to the pest house, where the patient recovered without further infection. Later in the year six more cases were inoculated from an emigrant child. All were isolated and treated at their homes, and recovered without further spread of the disease. Our exemption is only accounted for from the fact of the rigid enforcement of general vaccination by the health authorities in the past and so faithfully seconded by the officers of the Board of Education. Being without authority from the State to enforce general compulsory vaccination, the Board adopted a resolution forbidding the admission of children into the public schools, unless accompanied by certificate of their family physician that they had been successfully vaccinated within five years, and also furnished free vaccination to the poor, by these means not only creating a public sentiment in its favor, but raising up a community of thoroughly protected people.

OFFENSIVE TRADES.

For a series of years the grounds along the river and extending along the valley of Walworth Run have been occupied by oil refineries, slaughtering and packing houses, soap boiling, and a variety of other employments that are of an offensive nature, until their combined odors have assailed the nostrils of the people almost beyond endurance. The business has grown in due proportion, and the odors are so combined and various that it is frequently impossible to distinguish the individual

source. The Provision Company located on the corner of Commercial and Canal streets, engaged extensively in manufacturing fertilizers, was proven to be largely instrumental in producing very offensive odors in the middle portion of the city. On August 30, 1880, the Board of Health by resolution condemned the process of rendering bone and making fertilizer pursued by this company. On August 2d an order was issued for them to abate the nuisance within three days, or have the law enforced. The parties so notified availed themselves of Section 2129 of the Statutes of the State ; in which it gave them the privilege to stay execution of the order until they could be heard and present proofs and facts against the declaration and the execution of the order, or in favor of its modification. The Board of Health held a meeting on August 13th, to hear what defendants had to offer in explanation of their case ; but they failed to convince the Board that they were not producers of a portion of the stink. They then submitted a plan and asked for time to complete it, which was granted. The plan proposed was to place iron jackets over the rendering tank, to receive and conduct all steam and odor with pipes leading to a condensing tank, where it came in contact with a spray of water, condensing the steam and allowing the gas containing most of the odor to be driven by a revolving fan to the furnace, where it was consumed ; the gases arising from the drying cylinder, where the tankage was converted into fertilizer going through the same process. This had the effect to very much modify the nuisance. But, in establishments where slaughtering and packing are carried on so extensively, without more than ordinary care and vigilance, it is impossible to prevent a limited amount of unpleasant odors to arise, which are offensive to those in the immediate vicinity, an argument in favor of the necessity of prohibiting works of that nature being established in a thickly populated portion of the city.

Another establishment constructed and adopted the same plan, with similar results. A third adopted the process which

is known as Turner's apparatus. The steam and gases evolved within the tank by heat are forced through iron conductors into an iron coil connected therewith, which is immersed in cold water. Condensation of the steam and separation of the dry gas is thus accomplished, the gases pass on near the bottom of a separate and independent tank, partially filled with gasoline. From this tank gases charged with the highly inflammable vapor of gasoline and atmospheric air are burned in a common gas jet, or conducted into the furnace, where they are consumed. This process, if properly carried out in its minutest details, must be very effective in destroying odor from gases. But the want of proper sewerage and the saturation of the soil surrounding their works, will prevent anything, but reorganization and rebuilding of the establishments, to ever redeem it from being a plague spot in the city; and the same may be said of the entire valley of Walworth Run, the very name of which has become suggestive of bad odors to those familiar with its condition and location.

As the subject of food is one in which each individual, as well as the sanitarian, is deeply interested, it would seem proper that its inspection and preparation for market should be placed under the control of the Health Department. The largest proportion of the articles that enter into and compose the food of the people of the city is prepared by parties having much more regard for the per centage of profit than its healthfulness and fitness for food. While we have implicit confidence in the ability and efficiency of the officer in charge of that department, the subject should be placed under the control of that department of the government to which it properly belongs, and to whom he should be responsible for the proper performance of his office.

It pleased the Board during the last year to place one physician in each ward, making the districts eighteen instead of nine as formerly, so as to give the poor easier access to free medical assistance. For the amount of labor performed and assistance

rendered by each in his district, reference will be had to the tables attached. This work has been and always is a difficult one to perform among the class to which they are called ; yet, with rare exceptions, they have rendered satisfaction. It would be well to consider the propriety and advantage of establishing dispensaries in different portions of the city, where the medical supplies for the poor could be obtained.

The sanitary force has been retained at six, the same as last year, a number entirely inadequate to the wants of the city, many of the districts so large that it is impossible to perform the frequent inspection which strict necessity requires. All were men of experience, and the amount of labor performed by each in his individual district is shown in the tabular reports of the several districts.

For the expenses of the department for the year, I refer you to the accompanying report of the Secretary. While I am not able to point to a reduction in expenditure over last year, I am satisfied that the improvements instituted will vastly counterbalance any increase in money spent for the best interest of the city.

To the officers of the other departments of the City Government, with whom I have had official relations, I wish to extend my thanks for their uniform courtesy, advice and assistance.

In concluding this report, I would most cordially thank the Honorable Board for the uniform kindness, assistance and courtesy always shown me and the members of the force under me.

Respectfully,

W. B. REZNER, M. D.,

Health Officer.

December 31, 1880.

STATISTICAL TABLES.

ACTUAL MORTALITY FOR 1880.

Cause of Death.	1880. 1879.	Death rate per 1000 in pop. of 160,458.	AGE BY YEARS.															COLOR.		SEX.		SOCIAL COND'N																																																																																												
			Under one year.					5 years.					70 & over.					White.	Single.	Male.	Female.																																																																																													
			Total.					Total.					Total.																																																																																																					
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5						6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Zymotic diseases	1199	990	7.478	339	167	108	102	89	805	177	34	22	22	13	19	16	17	9	7	11	9	5	33	1180	19	605	594	117	1082																																																																																					
Constitutional diseases	469	480	2.628	74	15	6	3	4	102	8	12	27	46	47	38	31	22	24	19	20	19	16	38	492	7	218	251	225	244																																																																																					
Local diseases	1080	1065	6.731	378	69	23	25	16	511	34	16	25	33	28	32	42	47	42	44	52	50	33	93	1052	8	563	487	409	671																																																																																					
Developmental diseases	288	408	1.794	163	13	3	..	179	..	..	3	14	12	8	9	3	2	..	..	1	3	54	283	5	125	163	111	177																																																																																		
Deaths by violence	120	95	0.747	4	3	10	4	2	23	14	6	8	6	10	13	8	5	7	6	3	2	1	118	2	88	32	55	65																																																																																						
Total from all causes	3156	3068	19.668	956	267	147	137	111	1618	233	68	85	123	106	107	111	97	82	77	89	82	59	219	3065	61	1629	1527	917	2228																																																																																					

Add to the 3156 deaths, 154 still births and we will have a grand total of 3310 deaths.

NATIVITY.

	Male.	Female.	Total.
City of Cleveland...	936	832	1768
Other parts of United States	227	233	510
Germany.....	184	184	378
Ireland	92	94	186
Canada	17	13	30
England.....	59	43	102
Bohemia.....	20	26	46
Other foreign countries.....	42	27	69
Unknown	42	25	67
Total.....	1629	1527	3156

DEATHS REPORTED IN PUBLIC INSTITUTIONS DURING THE
YEAR 1880.

Name of Institute.	Male.	Female.	Total.
Charity Hospital.....	27	15	42
City Infirmary.....	38	20	58
Cleveland City Hospital	17	4	21
House of Maternity.....	11	22	33
Infant Asylum.....			
Homoeopathic Hospital.....			
Workhouse.. ..	1	1	2
Good Shepherd.....		2	2
Water Cure.....			
Trinity House		1	1
St. Mary's Asylum.....		2	2
St. Joseph's Asylum.....		2	2
Monroe Street Orphan Asylum...			
Little Sisters of the Poor.....	3	2	5
Jewish Orphan Asylum...			
*Cleveland Hospital, Insane.....	2	1	3
Total.....	99	72	171

*Residents only of city.

ZYMOTIC DISEASES.

WARDS.	ZYMOTIC DISEASES.												Population by Wards, Census of 1880.	Per cent that die out of every 1,000 inhabitants.	Number of deaths out of each 1,000.	
	Small pox.	Scarlatina.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Typhoid Fever.	All Diarrheal diseases.	Cerebro Spinal Fever.	Measles.	Other Zymotic diseases.	Total Deaths from Zymotic diseases.	Total Deaths from all causes.	Total Deaths Exclusive of those in Public Institutions.		
First		5	9	2		13	6	3	2		6	46	147	147	8,383 1.75	18
Second		6	1			8	4	1			1	21	85	64	6,087 1.39	14
Third		2	1			2	1	3	1		2	12	52	52	3,010 1.72	17
Fourth		14	13	4	2	10	3	7			8	61	205	197	11,418 1.78	18
Fifth		28	15	4	2	16	5	5	2		8	85	221	219	12,800 1.79	18
Sixth		53	17	6	5	19	13	10	4	1	19	147	419	342	20,238 2.07	20
Seventh		17	13	4	3	11	5	3	2		3	61	163	163	10,503 1.55	16
Eighth		6	1	6	2	22	2	1	1		9	50	141	141	7,869 1.91	19
Ninth		8	5	2	2	5	2	1	2		5	32	106	106	6,628 1.59	16
Tenth		7	12	3	3	7	2	6	3		16	59	175	175	9,428 1.85	19
Eleventh		24	25	12	3	11	7	7	2	2	13	106	253	253	12,271 2.08	20
Twelfth		46	35	11	4	16	8	13	1		20	154	283	283	10,505 2.78	28

ZYMOTIC DISEASES—Continued.

WARDS.												Per cent. that die out of every 1,000 Inhabitants.	Number of deaths out of each 1,000.		
	Small Pox.	Scarlatina.	Diphtheria.	Croup.	Whooping Cough.	Cholera Infantum.	Typhoid Fever.	All Diarrhoeal diseases.	Cerebro Spinal Fever.	Measles.	(Other Zymotic diseases.				
Thirteenth.....	29	23	12	7	26	2	18	1	9	123	271	213	7,023	3.55	36
Fourteenth.....	16	8	14	1	26	2	10	2	2	75	178	178	9,375	1.80	19
Fifteenth.....	15	6	4	4	4	5	3	1	1	33	94	92	5,962	1.59	16
Sixteenth.....	11	6	1	5	5	1	5	6	6	35	73	73	4,501	1.59	16
Seventeenth.....	9	9	1	4	4	2	2	1	1	1	30	83	4,111	2.01	20
Eighteenth.....	13	8	3	1	19	5	6	14	14	69	197	194	10,811	1.85	19
Total.....	300	267	88	30	216	70	104	21	5	143	1,199	3,156	100,458	19.6	20

REPORT OF BIRTHS FOR 1880.

	COLOR.			SEX.		NATIVITY OF PARENTS.												TWIN AND QUADRUPLES.				ILLEGIT- MATE.			
	Total	White.	Colored.	Not stated.	Male.	Female.	Not stated.	Native.	Foreign.	Native mother.	Foreign mother.	Native father.	Foreign father.	Not stated.	Native.	Foreign father.	Foreign mother.	Not stated.	Total pair.	Twins.	Total quadrupls.	Native mother.	Foreign mother.	Not stated.	
1880.																									
January	446	419	1	26	232	211	3	93	290	44	17	19	39	7	...	5	1	1	...	6	...	...	1	1	...
February	407	382	1	24	203	199	5	151	231	19	1	20	8	2	1	...	1	...	8	...	3	...	...	...	...
March	462	438	7	17	212	240	10	122	279	48	12	10	48	4	...	8	1	1	...	4	...	...	1	...	1
April	379	362	4	13	178	197	4	109	216	43	11	12	40	2	...	8	1	1	...	4	...	...	2	...	...
May	374	355	8	16	167	206	1	96	230	38	10	9	38	1	3	1	1	1	...	5	...	...	1	...	...
June	397	384	4	9	206	188	3	127	228	26	14	15	27	2	2	1	...	...	...	8	...	...	1	...	...
July	477	458	1	18	247	228	7	126	271	57	19	19	57	8	...	...	1	1	...	1	...	...	2	...	1
August	478	442	6	30	240	220	12	183	228	42	23	16	41	12	1	1	...	...	...	2	...	...	1	4	...
September	473	455	5	13	204	258	11	111	296	45	20	20	45	2	...	4	...	...	...	4	...	...	2	...	...
October	423	392	7	24	223	197	8	108	254	43	17	15	43	4	1	1	1	1	...	3	...	...	...	2	...
November	378	358	0	20	206	166	4	162	129	37	19	19	38	1	1	...	...	...	...	1	...	...	...	...	...
December	442	414	11	17	258	180	4	115	267	47	9	9	46	9	...	1	...	...	...	1	...	...	1	...	...
	5136	4869	50	227	2573	2496	67	1533	2919	439	172	168	470	54	9	20	7	6	8	...	37	...	12	7	2

AGE OF PARENTS.

MOTHER.										FATHER.									
15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 or over.	Not stated.		15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 or over.	Not stated.	
17	108	108	119	66	14	8	...	11	...	35	118	101	116	41	12	7	...	16	...
6	122	103	82	60	21	1	1	9	...	48	94	107	73	51	21	5	...	8	...
21	121	127	91	68	26	3	2	3	1	46	120	114	96	56	17	5	...	7	...
17	94	88	83	65	18	2	...	12	...	45	82	89	67	55	18	5	...	18	...
17	97	88	89	55	18	3	...	7	...	38	93	87	85	40	17	9	...	5	...
23	106	101	88	54	21	2	...	3	2	52	91	106	75	46	16	4	...	8	...
19	132	126	99	66	25	4	1	5	...	48	106	122	100	62	18	11	...	11	...
22	129	138	91	64	26	4	1	4	...	65	99	116	107	49	23	10	...	9	...
17	115	108	141	66	16	5	1	4	...	44	118	121	100	56	21	6	...	7	...
14	107	104	116	55	23	1	...	3	1	43	102	115	79	52	16	8	...	7	...
7	99	97	94	55	17	2	...	7	...	28	90	109	70	49	12	4	...	7	...
18	123	108	96	65	25	2	...	7	...	36	101	122	100	45	18	10	...	10	...
196	1352	1296	1189	739	249	32	6	75	4	528	1222	1306	1088	602	209	84	...	113	...

	1880	1879	1878	1877	1876	1875	1874	1873
Zymotic diseases.....	1199	990	820	824	...	1022	...	...
Constitutional diseases	409	480	617	489	...	415	...	...
Local diseases.....	1080	1065	831	1019	...	1044	...	...
Developmental diseases.....	288	408	331	435	...	271	...	...
Deaths by violence.....	120	95	111	136	...	210	...	...
Total	3156	3038	2710	2903	2873	2962	2148	2841
Still born	154	212	199	171	208	214	115	142

For the three years 1873, 1874 and 1876 I cannot find any classified report of the five classes above mentioned.

SECRETARY'S REPORT.

SECRETARY'S REPORT.

OFFICE OF THE BOARD OF HEALTH, March 1st, 1881.

To the Honorable Board of Health :

GENTLEMEN—In accordance with Section 8 of Chapter 52 of the Codified Ordinances of the City of Cleveland, I herewith submit my annual report for the year ending December 31st, 1880, and hope it will meet with your approval. In preparing this report I have included the entire year, whereas four months should properly come from the Honorable Board of Police Commissioners, they having charge of the sanitary affairs for that period, or until May 1st, at which time this honorable body acquired control. In preparing the statistics herein, with the exception of finances, I have been very brief, as they will appear properly dissected and carefully labeled in the report of the Health Officer.

The City Council, by authority of the General Assembly of the State of Ohio, in April last re-established a Board of Health, and the same law constituted the Mayor President of the Board ; and the Board appointing their own employes and fixing their compensation and the following results.

BOARD OF HEALTH AND OFFICERS AND EMPLOYES.

HON. R. R. HERRICK, MAYOR,
President of the Board.

MEMBERS OF THE BOARD AND WHEN THEIR TERM OF OFFICE EXPIRES.

H. W. KITCHEN, M. D., 1883.

W. J. SCOTT, M. D., 1882.

J. F. ARMSTRONG, M. D., 1883.

MR. J. D. CREHORE, 1882.

A. G. HART, M. D., 1881.

G. C. ASHMUN, M. D., 1881.

W. B. REZNER, M. D., *Health Officer.*
 Wm. H. FARRAND, *Secretary.*
 CHARLES KOHLMAN, *Steward Small Pox Hospital.*
 GEORGE ANDERSON, *Sup't House Sewer Connections.*
 MRS. CATH. KOHLMAS, *Matron Small Pox Hospital.*

SANITARY POLICE.

C. C. RAND.....Part of 1st ward and 2d, 3d, and 5th wards
 Wm. E. HEFFRON....." " " 4th and 6th "
 F. H. MARSHALL....." " " 8th, 9th and 10th wards
 ALEX MORISON.....11th, 12th and 13th wards
 JAMES WALL.....14th, 15th and 18th wards
 J. C. SHERMAN*5th, 16th and 17th wards
 *Resigned September 18th and A. G. Jones appointed to fill vacancy.

DISTRICT PHYSICIANS.

1st ward.....J. F. GIBSON
 2d ward.....W. C. CRAVEN
 3d ward.....CLARK TOWNSEND
 4th ward.....G. A. ORWIG
 5th ward.....H. H. BAKER
 6th ward.....B. A. RABE
 7th ward.....R. BAILEY, JR
 8th ward.....C. G. ASHLEY
 9th ward.....GEORGE M. KINSEY
 10th ward.....J. A. INGRAM
 11th ward.....D. C. HUSMAN
 12th ward.....FRANK DAYKIN
 13th ward.....W. J. SHEPPARD
 14th ward.....A. J. COOK
 15th ward.....G. W. STEPHENSON
 16th ward.....L. S. CHADWICK
 17th ward.....F. H. CLARK
 18th ward.....F. B. NORTON

SALARIES.

Health Officer, per annum.....	\$1,500 00
Secretary, per annum.....	1,000 00
Inspector of Sewers.....	780 00
Matron and Steward of Small Pox Hospital, per annum.....	360 00
Six Sanitary Police, each, per annum.....	720 00
Eighteen District Physicians.....	3,000 00
Small Pox Physician, each visit,	5 00

To pay these employes and run the department for eight months you found transferred from the Police Sanitary Fund \$7,300, and from the Newburgh Fertilizer Co., due on contract for sale of dead animals, \$270 83, and from other sources \$13 50, a total of \$7,584 33, a small sum in-

deed, but by your close calculations the sum of \$47 15 remained unexpended at the close of the year.

The Sanitary Department, prior to your assuming control, had expended under the Police Board's management the sum of \$5,371 77, making a total of \$12,908 95 for the year, expended in the following manner :

BY THE POLICE BOARD.

FOR EXPENSES OF SMALL POX HOSPITAL AND FARM.

Repairing road.....	\$ 50 00
Small Pox Physician, 10 visits.....	60 00
Groceries, provision and feed	207 48
Harness, repairs and blacksmithing.....	23 48
Toll	4 12
Hardware.....	11 45
Sundries.....	86 63
Total	\$373 16

FOR GENERAL EXPENSES.

Pay rolls.....	\$4,754 15
Gas and plumbing.....	10 63
Vaccine virus.....	14 75
Printing annual reports	82 28
Stationery.....	95 00
Postage	12 80
Sundries	19 00
Total	\$4,988 61
Grand total by Police Board.....	\$5,371 77

BY THE BOARD OF HEALTH.

FOR EXPENSE OF KEEPING UP THE SMALL POX HOSPITAL AND FARM NOT INCLUDING STEWARD OR MATRON.

Repairs on buildings.....	\$ 18 66
Repairs on wagons.....	34 25
Coal	30 90
Groceries, provisions, hay and feed.	173 60
Household goods.....	4 00
Sundry small articles	3 75
Total.....	\$265 78

FOR GENERAL EXPENSES, WHICH INCLUDES EVERYTHING, EXCEPT FOR SMALL
POX HOSPITAL AND FARM.

Pay rolls.....	\$6,346 14
Removing garbage for four and one-half months	450 00
Printing, advertising, binding and stationery.....	332 96
Postage	17 99
Cut and plan for new vault	10 00
Vaccine virus for district physicians.....	10 00
Sewer Inspector for 6 days.....	10 62
Hat cords and buttons for sanitary police.....	5 50
Gas and fixtures	11 11
Cleaning offices	11 50
New oil cloth and window shades....	48 00
New map of city.....	3 86
Sundries.....	13 75

Total..... \$7,271 42

Grand total by Board of Health..... \$7,537 18

By referring to the annual reports of this department back to 1873 they show annual disbursements, to-wit :

1873.....	\$23,416 14
1874.....	25,056 58
1875	19,549 38
1876.....	16,168 05
1877	14,233 18
1878.....	12,483 71
1879.....	12,036 52
1880	12,908 96

This simple statement shows not the grand struggle of 1873 and 1874 to stamp out small pox, and leave no landing place for the then threatened Asiatic cholera. Small pox, with a record of 346 cases reported, 100 removed to the pest house, and 84 deaths in 1873, and its re-occurrence year after year, disappeared in 1874, and, in spite of the anxious daily inquiry of the enterprising newspaper men, small pox has ceased its annual visits.

Complaints to the number of 859 have been attended to from this office, and requests from 315 citizens asking removal of swill have received attention. The removal of garbage by boat down the lake gave universal satisfaction, and was promptly and properly attended to. The number of dead animals

removed I have been unable to ascertain from the contractor, who receives his orders from the Central Police Station. One hundred and fifty six milk permits were renewed, out of 205 issued in 1879.

The removal of night soil at first caused numerous complaints to be lodged against the contractor, but the new rules adopted by the Board have worked like a charm, and now complaints have entirely ceased. Two thousand three hundred and sixty-eight vaults have been cleaned, and 5,051½ cubic yards of night soil removed, at an expense of \$10,859 45, and \$49 87 overcharged, returned by the contractor. Two hundred and thirty-one new vaults were constructed during the year, of which number 32 were of the new pattern, and are giving universal satisfaction; and the year 1881 will see not less than 500 of them completed.

In one of your rules you instruct the Secretary to make and keep an accurate record of all births and deaths occurring within the city. I have been unable to complete these records during the past year, but hope to make a better record should I be retained by you another year. I have attached to this report tables showing the actual mortality for 1880, nativity, deaths in public institutions, zymotic diseases by wards, with their actual population as reported by the census enumerators; also a table commencing with 1873 to and including 1880, showing the deaths by zymotic, constitutional, local, developmental diseases, violence and total still-born in each of the several years mentioned, and a report by wards of the births occurring in 1880.

A great source of annoyance during the summer was the indifferent manner in which swill was removed; but a new contract has just been awarded, and it is hoped for the better. The sanitary inspectors are now engaged in measuring, enumerating, and locating all the water closets, privies and cesspools in the city, which when completed will be of great value for reference.

In the eight months just passed nothing startling occurred. Walworth Run and kindred nuisances made their annual appearance and caused a commotion for a time, but an early winter killed these stenches for the season, and 1881 will see a renewal of them and a new commotion.

Some changes in the general municipal laws have been asked for and granted by the City Council, and more are needed; but our city fathers are slow to move in the matter to give the Sanitary Department all the necessary authority to enforce their rules.

Before closing I desire to tender my sincere thanks to the members of this Board, individually and collectively, for their uniform kindness to me during the year just passed and also to the Health Officer and his assistants, and to the officers and employes of the several departments of the City Government for numerous courtesies shown me, for which I am under lasting obligations.

And, again thanking you for these civilities, I remain

Very respectfully yours,

WM. H. FARRAND,

Secretary.

SEWER INSPECTOR'S
REPORT.

SEWER INSPECTOR'S REPORT.

To the Honorable Board of Health:

GENTLEMEN:—I herewith present you the Sewer Inspector's Report for the year ending December 31, 1880.

During the year there were issued 1,022 permits.

For new sewers and extensions,	-	398
“ repairs on sewers,	- -	182
“ new plumbing,	- -	372
“ plumbing repairs,	- -	70

1,022

Issued by the present Inspector during seven months, 610.

In presenting this report I would most respectfully submit some suggestions for your consideration.

The lack of ventilation in the main sewers is an evil which ought to be remedied. The man-holes should be provided with perforated covers, in order that a thorough circulation of air may be established, and maintained in them. No system of chemical disinfection can be carried on which will equal the purification of the sewers by ventilation.

If the sewers are unventilated the gases arising from putrefaction will be generated more rapidly, and become more concentrated, and when an usual pressure exists, caused by heavy rainfall, the gases displaced by the water may be forced into dwellings, through unventilated syphoned traps, or if the pressure should be great the water seal may be forced. If the main sewers, house drains and soil pipes are properly ventilated the danger from sewer gas would then be reduced to the minimum. On the subject of ventilating sewers, Mr. Rob-

ert Rawlinson, C. B., Chief Engineering Inspector to the Government Board, London, makes the following remarks. "There are cities in which the sewers are not ventilated, because the inhabitants refuse to have any sewers ventilated at the street surface. This is a sad mistake, as a town having unventilated sewers, and house drains connected with them, also unventilated, must have disease in excess. If main sewers are not fully ventilated at regular intervals by fixed openings communicating with the external air, they become flues, up which sewer gas will rise and pass through the drains to the connected houses. Ordinary main sewer ventilation should be provided for on all sewers, at intervals not greater than one hundred yards, or not fewer than eighteen fixed openings for ventilation should exist on each mile of main sewer.

If it is found that some of the ventilators are a nuisance, additional sewer ventilation should be provided at shorter intervals. Steam boiler or other furnaces and tall chimneys may be used for sewer ventilators where the owners of factories will permit of such use, but the man-hole means of sewer ventilation must not on that account be dispensed with, as the ventilating effect of a furnace or tall chimney will be limited to a comparatively short length of sewer, by the number of openings into the main sewer, such as house-drains, streets, gullies, &c. These means for the full and permanent ventilation of sewers and house drains are required to prevent stagnation or concentration of sewer gases within sewers and drains, and with numerous openings from the sewers to the external air, as described, there will be unceasing motion and interchange betwixt the outer air and the inner sewer air, which will bring about extreme dilution and dispersion of sewer gas so soon as generated.

It has been found by experiment that, in unventilated sewers the gas concentrates, and so becomes deadly, whilst in fully ventilated sewers the air is purer than that of some stables. If sewer air at any sewer ventilator, or at any other point should be offensive, additional means of ventilation should as soon as

possible be supplied. It has been suggested that free and open sewer and drain ventilation will taint the atmosphere of a town or city. Serious injury from this result need not be feared, as with the abundant means for ventilation suggested, the air within the sewer by dilution, would be comparatively pure, and further dilution and dispersion will dissipate every trace of taint and danger, the dilution, through dispersion, being as the cube of the space and the velocity of the air for the time being."

In order that the perforated man-hole system should be fairly tested, one or two of the main sewers should be thoroughly ventilated, and its effectiveness fully demonstrated. It would be very injudicious to put in a few ventilated manholes, here and there, all over the city, as such a course would no doubt be the means of condemning the whole system as unworthy and unsatisfactory.

We are fortunate that we have not to grope in the dark, but can take advantage of the experience of those who are making this branch of human knowledge, sanitation, a life study, and we shall be highly culpable if we do not profit by their labors. Some automatic system of flushing should be adopted by which the daily or semi-daily accumulations may be carried forward, and the sewers kept clean and their flow unobstructed. Full and frequent flushing will no doubt prove to be the best antiseptic. It is stated on good authority that Vienna has reduced its mortality over 30 per cent. by the provision of an over-abundant water supply from the mountains, flushing the house drains and sewers, and supplying pure water in excess of all wants.

Carbolic acid is reputed to be one of the best antiseptics, but Pettenkofer, who is considered an authority, says: "Carbolic acid does not destroy the ferment cells, but preserves them inert and when it is removed they become active." It would thus appear that nothing short of removal of all excrementitious matter will insure perfect safety. The outlets of sewers should be protected from wind blowing into them. During a

storm the pressure is often very great, causing, as they are now arranged, the bad effects to be very discernible in dwellings in close proximity to the lake, by an influx of sewer gas where defective plumbing exists. Hackerman relates that in the prisons at Brest (France) the apartments which were supplied with water closets were filled with sewer gas when the southwest winds drove the air through the sewers and forced the traps. In these apartments the cholera raged with great intensity, while those parts of the prison not supplied with closets, remained free from it. Some method should be adopted to carry the sewage into the lake, instead of being discharged on the shore.

At the present time many of the sewers discharge their contents inside the piles on the shore, among large rocks, which obstruct the flow and retain matter which should be carried into the Lake as far as possible from the shore, and prevent accumulations, which, during the summer months, must become very offensive as well as detrimental to health. When so much has been done to make Lake View Park a place of public resort, it would seem that the work is incomplete while the sewer outlets are in such an unfinished condition. It would appear to be a necessity that in that locality, at least, something should be done. A main sewer might be built having its outlet at Muirson street, with connecting intercepting sewers on the west and east; say from Water street on the west and Alabama street on the east. A similar system might be carried out in the eastern part of the city, if the Muirson street and intercepting sewers should prove a success. On the west side, the natural outlet would seem to be the Cuyahoga river, whose current is easterly in the lake and not likely to affect the city supply of water at the crib. All house drainage should be as perfect as possible, and it is generally conceded that heavy iron pipe, painted inside and outside, is the most reliable, placed in such a position that it can be readily inspected and any defects easily detected. Where vitrified pipe is used and covered up, imperfect joints may have been made, and silently and surely.

day by day, it may be doing its deadly work, without being suspected. If suspicions are aroused, the trouble of breaking up a cemented floor may be considered too great and unnecessary. Few floors are impervious to sewer gas and some are not even rat proof. When the latter is the case a direct communication with an imperfect sewer may be established, and the rat hole become an air duct for the register. Of course no one would intend or make provision for supplying the register with air from the cellar, but such is the case at times, when through accident or neglect the supply pipe is disconnected. In some cities the rule is imperative that all soil pipes in tenement houses shall be of iron, carried along the cellar walls; in others the rule applies to all dwellings. If vitrified pipe is used none but the best cement should be used, with clean pure sand, as provided in the Ordinances. The formula for a good cement, as given by one of the leading sewer builders of the city is as follows: One part sand and one part cement, the sand clear and sharp and free from all foreign matter, the surfaces should be washed clean, and the work done while wet." It is a good provision of the Board that Portland cement shall be used in the construction of privy vaults, and certainly as good quality should be used in laying sewers. Too little regard is paid to the quality of sand used, the sewer builders relying too much on deriving their supply where the work is done, a practice very reprehensible.

Rule 13, of the Ordinances to Regulate and Control the Construction of House Sewer Connections and "House Drainage," passed April 9, 1879, provides that: "All ventilating shafts shall be constructed of not less than one half the diameter of the pipe to be ventilated." Sanitary engineers, men of national reputation, advocate the extension of soil pipe full size through the roof. When only one-half the diameter is used, the area of ventilation is only one-fourth of the soil pipe, which would be inadequate, particularly if the ventilation is of great height.

I would suggest that an ordinance be passed providing that plans for sewerage and plumbing shall be submitted to and ap-

proved by the Board before a permit shall be issued. In the construction of privy vaults which connect with the sewer, no definite plan is adopted, but each builder follows his own plan or caprice. Some rule ought to be laid down and enforced. The outlet, I think, should be on a line with the bottom of the vault, and the down spout or other wastes entering at the other end, the bottom having not less than two inches fall to the foot. Many vaults have been built with the outlet from nine (9) to twelve (12) inches above the bottom, thereby retaining that amount of soil which necessarily becomes putrid, and every time wastes enter it stirs up the whole mass, giving off the most noisome and offensive effluvia ; so much so that it fills the dwelling with its pestilential vapors, if the vault is not disconnected from the dwelling. All privy vaults, whether connected with the sewer or not, should be disconnected from the dwelling.

Next in importance to pure air is pure water.

The close proximity of wells to privy vaults and cesspools open at the bottom, manure heaps or any accumulation of decayed vegetable or animal matter, will invariably render water unhealthy and unfit for use. In the case of gravelly soil, impure water may percolate through it, and the matter held in suspension, to all appearance, may be removed by filtration, and it may seem to be perfectly pure, and to the taste may be very palatable, and still very unfit for use. In a thickly populated city, nothing short of a scientific test can fully determine the quality of well water. It is never safe to rely on any specific distance as being safe from contamination. The deeper the wells the larger the area they will draw their supplies from particularly in long continued drougths when water is low. There are well authenticated cases of wells becoming contaminated by privies one hundred feet distant. (One case is mentioned in the Massachusetts State Reports of the Board of Health, of eight members of one family being attacked with typhoid fever, within twelve days, by using the water of a well, twenty feet deep, one hundred feet distant from a privy vault. The tests applied proved conclusively that there was direct

communication between the vault and well. The case of the Broad St. pump, in London is an evidence of the danger of relying upon the palate as a test of the purity of water in wells in cities. It is stated that the Broad St. pump water was the cause of the death of five hundred persons in a single week during the cholera visitation of 1848-9. Many of those who were able to leave, fled, and went to reside five miles further up the Thames, were there attacked with cholera, it being found that they had been in the habit of sending to the Broad St. pump for tea water.

Dr. Fergus of Glasgow, Scotland, asserts that diphtheria, diarrhœa, cholera and dysentery have increased four-fold since the introduction of the water closet system, with its numerous inlets for sewer gas into houses and into supply cisterns.

In 1872, the Medical Officer for Edinburgh reported that wherever water closets were introduced, "in the course of one year there were double the number of deaths from typhoid and scarlet fever, and any epidemic fever occurring in these houses assumed a character of malignant mortality."

If such sweeping condemnations of the water closet system are near the truth, the important question may well be asked, "What are we going to do about it?" Abolish the system, or adopt the most improved methods of ventilation, trapping and flushing?

The water closet system has become almost a necessity, and will not be dispensed with, and it is for your Honorable Board to initiate such further reforms as will insure the minimum of risk incident to it.

The Reports of Boards of Health of States and cities, are filled with innumerable instances of death caused by sewer gas, and water contaminated by sewage, and the cause seems to be as plain and unmistakable as that of the suicide in whose stomach is found a sufficient quantity of morphine, arsenic or strychnine, or the leaden bullet in the brain.

Of the deadly nature of sewer gas, the melancholy accident which occurred May 27th, 1878, at 22 Grove St., in this city, is

a remarkable instance, and is no doubt fresh in the memory of our citizens. Four men lost their lives by descending into an unventilated cesspool. This cesspool was nine feet deep, eight feet long and four feet wide. It was planked all around and on top, and was covered with eight inches of dirt, but had no ventilation. It was separated from a privy vault by about four feet of bank, but was connected with it by a log through which there was a two-inch hole. This hole had been closed for some time, so that the cesspool was cut off from all connection with the outer air except at a small opening where the waste water was poured in.

The vault having been pretty well filled with water from recent rains, it was decided to open the hole between the cesspool and the vault for the purpose of letting off the surplus water. An opening was made in the top four and one-half feet long by fifteen inches wide. Through this a ladder was put down, and a man went down for the purpose of drawing out the plug leading to the vault. As soon as the plug was drawn out, there was a rush of gas, which made the man so dizzy that he could not ascend the ladder. Another man came to the rescue, went into the vault and lifted the first up, who was drawn out by two men on top. The second attempted to come up, but fell back, apparently dead. A third and then a fourth went down, but all shared the same fate. They lay in the cesspool for from thirty-five to forty minutes, and when taken out, were dead. The first, although taken out alive, only survived about forty hours, and showed symptoms indicative of typhoid condition. A full report of this accident is given in the Health Officer's Report for 1878. In cases like the above, sulphuretted hydrogen is considered to be the destructive agent. It has been ascertained by experiment that freshly burnt, fine box-wood charcoal will absorb 55 volumes of the gas, (sulphuretted hydrogen.) Five and a quarter cubic feet of charcoal would have been sufficient to have absorbed all the gas contained in a vault of the size noted above. Some tests ought invariably to be made before entering old wells, vaults or cess-

pools, and means adopted to destroy or get rid of the noxious gases.

In 19 towns in England the mortality, which had been 28 per 1,000 before sanitary improvements, fell to 21 per 1,000, a decrease of 25 per cent in the death rate. In Liverpool the decrease was over 32 per cent. From 1681 to 1690 the population of London was about 530,000, while the death rate was about 42 per 1,000. From 1746 to 1755 the population was 653,000, and the mortality 35 per 1,000. From 1846 to 1855 the population had increased to 2,362,236, yet the death rate was reduced to 25 per 1,000, notwithstanding the fact that during this period occurred the cholera of 1848-9 and 1854-5. Since 1856 the population has increased to 3,311,298, estimated to the middle of 1872, while the death rate has shown a gradual reduction, until for that year it was only 21.4 per 1,000. In 5 English towns, after sanitary improvements, the death rate decreased 24.8 per cent. The decrease of typhoid fever was 54.8 per cent, and phthisis 25.2 per cent.

In this city the death rate for 1880 was 19.67 per cent., exclusive of still born.

Of the total number of deaths, 30.29 per cent. died under 1 year, 51.26 per cent. under 5 years, 60.8 per cent. under 15, 63.5 per cent. under 20, 29.56 per cent. between 20 and 70, and 6.94 per cent. over 70.

Although the death rate is low, as compared with many other cities, still there is room for considerable improvement.

The death rate in Cleveland in 1872 was 19.5 per 1,000, a more favorable showing than the past year by 17-100 per 1,000. Fifteen cities in the United States, with an aggregate population estimated at 4,194,279 in 1872, show a death rate of 27.94 per 1,000. Ten towns, with aggregate population estimated at 246,000 the average death rate was 14.77 per 1,000. Statisticians estimate that the lowest possible attainable death rate is 11 per 1,000, but under favorable conditions 15 per 1,090 may reasonably be expected. If the death rate of our city were reduced 25 per cent., it would still be higher than the average

of the ten towns already referred to. It does not appear to me unreasonable to suppose that the death rate of Cleveland might be reduced 25 per cent. It is a difficult matter to arrive at a correct comparative statement of the annual death rate without an annual enumeration. It would appear that very crude guess work has been used in former estimates.

Population according to U. S. census 1870.....	93,018
Population by wards 1870.....	106,907
Population in January—police enumeration—1881.....	158,207
Population—U. S. census enumerators—1880.....	160,458
Population in January, 1881—police census.....	167,413

For four years, 1875-78, the population was estimated at 162,000; in 1879, 175,000, and in 1880, 160,458. If the population were not migratory, the increase would be the difference between the births and deaths; but over 60 per cent. of the increase is from emigration.

Of the Germans who come to this country, it is estimated that 75 per cent. are between the ages of 15 and 40. It must be evident that an addition to our number of those who have nearly arrived at the age of puberty must tend to reduce the death rate, and vice versa, must increase the death rate of the countries or localities from whence they come.

In looking at this subject from a politico-economic point of view, man must be considered worth what it will cost to raise him, and should death occur before he has been able to contribute anything to the general good, the amount expended is an absolute loss to the community.

Let me direct the attention of your honorable Board to a few figures in demonstration of the proposition that money judiciously expended in improving the sanitary condition of the city will bring better returns in dollars and cents than can be obtained in any other way.

Died under 1 year, 956; cost, \$125.....	\$ 119,500
“ 2 “ 267; “ 175.....	46,725
“ 3 “ 147; “ 225.....	33,075
“ 4 “ 137; “ 275.....	37,675
“ 5 “ 111; “ 325.....	26,075
Died, 5 and under 10, average 7½, 233; cost, \$475.....	110,675
Died, 10 and under 15, average 12½, 68; cost, \$725.....	49,300
Died, 15 and under 21, average 18, 106; cost, \$1,000.....	106,000

Total cost of those who die under 21 years.....\$539,025

If the death rate could be decreased 25 per cent. the gain would be \$134,756.

Of the 911 deaths which occurred in the sustaining period, viz., between 20 and 70, the average age is about 42, with an expectation of life of 26.48 years, or a total of 24,124 years: a reduction of 25 per cent. would be a saving of 228 lives, or 6,031 years. It is not an over estimate to assume that the value of the labor of all, men and women, at this period will average \$200 per annum above their support, or an absolute loss to the community of \$1,206,200 by premature death.

It is estimated by the English observations and calculations, and the same basis is adopted in the Massachusetts State Reports, that for every death they are two constantly sick, or equivalent to 730 days' sickness and disability for every death.

If then a saving of 228 lives is effected, the consequent amount of sickness saved would be $228 \times 730 = 166,440$ days.

Two dollars per day would be a low estimate to cover loss of labor, medical attendance, nursing, etc., during sickness, making a total loss of \$332,880.

No account has been taken of the cost of the sickness of all those who arrived at the age of 21 years; and when it is taken into account that 2,025 died under 21, the amount of sickness of those who survived must be considerable, and would undoubtedly balance any over estimates which may have been made in the above calculations. To sum up, how stands the account?

25 per cent. of loss on those who died under 21 years.....	\$ 134,756
“ “ “ “ “ “ between 20 and 70.....	1,206,200
Loss on account of sickness between 20 and 70.....	332,880

Total.....\$1,673,836

The above would pay 6 per cent. on an investment of nearly \$28,000,000. Comparing the favorable sanitary condition of our city with the United States, it is no exaggerated calculation to suppose that the loss to the nation amounts to not less than \$600,000,000 annually, equal to an investment of \$10,000,000,000 at 6 per cent. To the affluent, or those in moderate circumstances, the loss which arises from sickness and death in their own families is borne by themselves, but they are also compelled to bear a share of the burdens of their poorer neighbors, to whom sickness and death in the family often means poverty and want; hence the necessity for organized charity and increase of taxes. These calculations are submitted to your honorable board as approximative, and without the least intention of presuming that they contain any information with which you are not perfectly familiar, but that through you they may reach the general public, who are too busy with their own private business and affairs to devote the time which is necessary to a consideration of a question which is of such vital importance to the well-being of society. If it can be clearly demonstrated that expenditures for sanitary improvements are the best paying investments, there is no doubt but a generous public will give their moral, as well as pecuniary, support to the efforts of your honorable Board, but without the co operation of an intelligent, educated public opinion, the work of the Board must be discouraging, and its success much impaired.

Respectfully submitted,

GEORGE ANDERSON.

Sewer Inspector.

REPORTS OF
DISTRICT PHYSICIANS.

TABLE No. 1.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 1.
For the year ending December 31st, 1890.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.		Females.		Married.	Single.	Color.	Prescription, No. of.	Visits made, No. of.	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
Zymotic.....	23	4	16	38	49	96	42	15	16	1	120	180	123	177	253	969	391	14	25	23	151	12	7	47	16	300	
Local.....	9	9	15	25	50	123	48	31	27	4	155	186	153	186	394	886	342	31	27	44	165	10	8	47	9	341	
Constitutional.....	1	1	1	5	37	23	10	8	1	38	51	47	40	71	244	103	6	4	14	41	2	2	16	2	87		
Developmental.....	16	4	7	4	8	11	2	1	.....	14	34	7	41	46	162	103	1	5	5	15	8	12	2	...	46	
Violence.....	2	1	2	3	12	14	10	5	6	1	35	21	17	38	49	191	90	...	6	1	38	2	...	1	2	56	
Total.....	51	18	41	71	119	281	125	62	57	7	380	472	347	485	713	2461	1029	52	67	92	410	34	29	119	29	883	

REPORT OF DISTRICT PHYSICIAN No. 3.



To the Health Officer of the City of Cleveland:

SIR—While submitting this summary of the work done in my district during the year 1880, I desire to call your attention to the fact that in my reports for 1879-80, covering a period of two years and including a total of five hundred and eighty-six (586) patients, no cases of either diphtheria or typhoid fever appeared, and but one case of scarlatina, and there was even some doubt about the diagnosis of this. These facts are interesting in connection with the etiology and prevention of these diseases, inasmuch as the territory covered embraces the filthiest portion of our city, peopled by a class wholly in keeping with their surroundings. If these diseases are ever due to the accumulation and decomposition of filth, surely Irish town and Spring street offer special inducements, yet here are five hundred and eighty-six (586) cases treated, representing almost every form of disease, with not a single instance of diphtheria or typhoid fever and but one (a doubtful case) of scarlatina. Is not this evidence worthy of record that these are not filth diseases? Does it not prove conclusively that they depend upon specific causes, which have no more connection with filth of whatever variety (for surely none is wanting in the two localities mentioned) than have small pox and measles, except in so far as whatever brings the general health below par renders the individual more susceptible to the action of any specific poison with which he may come in contact and less able to cope with

acute disease of every form ? Not meeting with a single case of diphtheria in all this part of the city and in a total of five hundred and eighty-six (586) cases, leads me to ask whether our city has not a reputation for the almost endemic prevalence of the disease which it ill deserves ? I am confident many of these cases would have been pronounced diphtheria by a certain class of doctors, some of whom are ignorant, and others desirous of gaining a reputation in the treatment of this fell destroyer, by calling all cases of simple pharyngitis diphtheria, have imposed upon the people and greatly injured the good name of our fair city.

I am pleased to state that in my district I have found among the suffering poor many who are in every sense worthy and who are now the recipients of charity through circumstances over which they have no control. To assist such in no manner encourages pauperism. Those who hold that "every man gets just all he deserves of this world's goods" would certainly have changed their opinions could they have followed me in my daily rounds during this hard winter. As every physician knows from his experience in private practice, the mere prescribing of drugs is but a small part of the conscientious duties of a district physician. Drugs are of little avail to a poor, sick woman, working day and night to raise sufficient money to satisfy a heartless landlord (there are some not so far away as Ireland), with neither food nor fuel. These are some of the cases with which we meet, and I have been obliged personally to see that these wants were supplied. To the Diet Dispensary (one of the most worthy and liberal charities in the city) I am under great obligations for furnishing many of my patients with the very best of nourishment.

The need of hospital accommodations is often felt. True, the Infirmary Hospital is a comfortable place, and in charge of a thoroughly competent physician, but there are many cases which should not, and others which could not, be sent that distance—strangers suddenly taken ill, severe accidents, etc. Such are now wholly dependent upon private institutions. From

my experience as resident physician in Charity Hospital, I know that institution annually saves the city hundreds of dollars, for which it receives no compensation. This is unjust. for their expenses are necessarily large and donations few. Sometimes, though rarely, they are obliged to refuse, when the police bring a sick stranger, and are thought to be very hard-hearted and uncharitable. Considering the great amount the city is annually saved by the hospitals, should it not be at least willing to pay something for the care of those brought in by its officials. With your recommendation would not the Council or Board of Health make arrangements with the different institutions to take those brought in by the police and given a certificate by yourself, or the district physicians, at the city's expense? There was a time when the city endowed several beds at Charity Hospital, but this ordinance was repealed, and a member of the Council, who voted to deprive a meritorious institution of this little aid, was this very winter, while sick, the recipient of that institution's liberal charity. Such changes does time bring.

You do not require us to treat syphilitics. I am led to believe it would be economy in the end to so regulate the salaries as to include these patients. At present many of them get no treatment whatever, and thus the disease is rapidly communicated. Finally, their condition becomes so serious they are compelled to go to the Infirmary for a long course of treatment, at a much greater expense. With treatment in the beginning, they might have kept right on with their employment, and often saved families from the city's support.

I need not call your attention to the fact that the salary received is out of all proportion, not only to the work done, but to the amount paid by other cities, and by this city in other departments. I am aware that last year the Board did as it was compelled to do, and not as its sense of justice dictated.

A great many of the children treated are just in that stage of struma which demands cod liver oil, and which, if freely administered, might add ten (10) good working years to each

life. So, too, many adults in the first stage of phthisis might be saved by it. You are aware it is impossible to furnish this with all things else on a salary of twenty-five dollars (\$25) a month. The coming year, would it not be well for the city to either furnish it by order on the Infirmary Department, or so regulate the physician's salary as to permit him to dispense the article?

From my observation, I am confident that fewer men and a larger salary would care for the sick much more satisfactorily. I trust you sir will not deem these suggestions inappropriate.

Respectfully submitted,

CLARK TOWNSEND,

Physician.

REPORT OF DISTRICT PHYSICIAN No. 4.

CLEVELAND, O., March 4, 1881.

To W. B. Rezner, M. D., Health Officer :

In submitting the annual report for 1880, I would make the following suggestions and statements regarding the sanitary condition of the district.

The health of the poor has been fairly good, few cases of a serious nature having come under my care, and but few of these having resulted fatally. The most fatal diseases have been summer diarrhoea among children and phthisis pulmonalis among adults.

With our present knowledge little can be done for the prevention of the latter disease, but something might be done to diminish the fatality of the former, by securing better drainage and ventilation, and preventing crowding in some of the tenement houses of my ward. Much also might be done to preserve the health of the community by enforcing a law prohibiting the throwing of garbage and dead animals into the streets and alleys.

In some families, too poor to provide proper nourishment for the sick, I have been greatly aided in treating cases by the kindness of the ladies of the Diet Dispensary in furnishing proper food, free of charge.

The greatest need of the ward, and of the city at large, is a proper place to which patients, who cannot be taken care of at home, can be sent. Many of the poor, not only cannot get proper food, but have no one to administer medicines and take care of them while sick. For such the city ought to provide a

hospital. The district doctor can prescribe and furnish medicines, but he cannot remain in the house and administer it at proper intervals and provide food for the sick, and very often the helpless patient is left to the tender mercies of indifferent neighbors. It is true we have an Infirmary several miles from the heart of the city, and many miles from the homes of some of our poor, but patients often are unwilling to be sent to the "poorhouse," and it is difficult to persuade them that the Infirmary is anything else.

By all means let us have a city hospital, centrally located, if we want to keep pace with neighboring cities and take proper care of our poor.

As far as I am able to judge, the plan adopted by the Board, of providing a doctor for each ward, is the best that can be devised. It enables the poor to procure assistance quickly and it prevents a great deal of imposition, by enabling the doctor to become cognizant of the real condition and wants of the applicants for assistance.

It also enables the doctor to attend to his other business, without neglecting the poor. If the districts are very large and the doctor has any business of his own, one or the other must be neglected, and with the present proportionate remuneration, it is not difficult to see which would suffer most, the poor or the paying patient. Finally, let me suggest, that by providing better pay for the doctors, they will be able to furnish better drugs to their patients, and consequently have better success in treating them.

G. A. ORWIG, M. D.,
Physician Fourth District.

TABLE NO. 4.
 THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 4.
 For the Year ending December 31, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of.	Visits made, No. of.	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
														White.	Colored.											
Zymotic	1		1	7	1	7	3		1	10	11	11	10	14	7			1	3	1	5		1	7	3	21
Constitutional						4	2	4	2	8	8	11	5	14	2			1	4	7	2			2		16
Local	7	3	5	19	7	25	13	11	5	4	45	55	35	64	28			20	19	5	14	3		23	3	90
Developmental							1			1	1		1	1							1					1
Violence																										
Total	8	3	6	17	12	34	20	16	8	4	64	77	51	93	35	22	329	22	28	13	22	3	1	35	6	128

REPORT OF DISTRICT PHYSICIAN No. 5.

To W. B. Reznor, M. D., Health Officer, Cleveland, O. :

DEAR SIR—In compliance with your instructions I will now proceed to offer a few thoughts concerning the sanitary condition of the Fifth Ward of this city.

It is proper, however, that I say in starting, that these remarks make no pretense to being exhaustive, but on the contrary, are extremely superficial, being only such as have occurred to me after very brief reflection.

The people of the Fifth Ward are, many of them, very poor, and as an almost natural consequence, their condition is not one favorable to the maintenance of a high average degree of health. In addition, however, to those things which are inseparable from indigence, there are also present some unhealthful conditions which may be regarded as peculiar to the locality.

Prominent among these is the almost perfect level of parts of Oregon and Hamilton Streets, which prevents any effective surface drainage, which, in connection with the defective sewerage, renders the surface of the ground almost always damp, from which poisonous exhalations are continually arising.

The filthy habits of many of the people in their disposal of their slops and garbage, of course aggravates the trouble.

Another misfortune of this locality is that the land is largely owned by two or three wealthy citizens, who, having unbounded faith in the future of the city, and being very anxious to secure to themselves the utmost possible amount of gain, choose to

defer the sale of their lots until the price of the same shall have reached a point more in consonance with their desires. Being thus forced to live on leased land, the tenants naturally build the very cheapest houses that can be made to afford the semblance of a shelter to their families, while the odd half-hours gained from the interests of dally-toil, which might be applied to the improvement and beautifying of a *home* which it was felt was to be permanent, are now passed in idleness, or worse.

It is manifestly impossible to secure favorable hygeinic surroundings to homes not actually owned by their tenants, and it is much to be deplored that a more equitable system of taxation has not been devised which would render the holding of large tracts of land near the heart of the city, unprofitable.

Respectfully submitted.

H. H. BAKER, M. D.

TABLE NO. 5.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 5.
For the year ending December 31st, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Vitals made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
															White.	Colored.											
Zymotic	3	2	1	1	1	1	1	1	1	1	5	5	2	3	4	..	..	..	3	1	..	3	..	..	..	..	1
Constitutional .....	..	..	..	1	2	2	2	1	..	..	5	3	4	4	..	..	..	..	2	1	..	4	..	..	1	..	8
Local	1	1	9	7	5	6	3	..	..	..	20	12	21	11	..	..	..	..	6	3	..	20	..	..	1	2	32
Developmental .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Violence	1	..	..	..	..	2	1	2	..	..	2	2	2	4	..	..	..	..	2	1	..	3	..	..	..	1	6
Total	1	5	12	9	10	10	6	6	..	..	22	21	30	33	..	..	162	141	13	6	..	29	..	..	2	3	53

TABLE NO. 6.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 6.

For the year ending December 31st, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
															White.	Colored.											
Zymotic			3	1	2	1	2				5	4	1	8	8		23	24		6	1	1			1		9
Constitutional								2			2		2				4	1							2		2
Local	2		1	5	2	11	4	2			13	14	14	13	20		80	73	3	9	1	4		2	1	1	27
Total	2		4	6	4	12	6	4			20	18	17	21	28		107	98	3	15	2	5		2	10	1	38

TABLE NO. 7.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 7.
For the year ending December 31st, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
															White.	Colored.											
Zymotic	1	1	6	3	6	1	1	1	1	7	7	12	2	17	19	..	29	40	13	..	1	2	..	..	..	3	19
Constitutional .....	..	..	..	..	..	2	..	4	..	2	2	4	2	4	6	..	8	12	2	..	..	4	..	..	..	..	6
Local .....	..	..	2	3	2	5	3	5	4	9	7	26	9	24	83	..	86	81	11	2	2	17	..	..	..	1	83
Violence .....	..	..	..	..	1	..	..	1	..	..	..	2	1	1	2	..	6	7	1	..	..	1	..	..	..	..	2
Total	1	3	9	6	13	6	9	9	4	9	16	44	14	46	60	..	129	140	28	2	8	24	..	..	..	4	60

TABLE NO. 8.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 8.
For the year ending December 31st, 1890.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
														White.	Colored.											
Zymotic	1	1	1	2	1	4	3	2	...	10	5	8	12	15	...	50	46	...	...	...	14	...	...	...	1	15
Constitutional .....	...	...	...	...	...	2	2	1	7	1	11	5	7	12	...	36	37	1	...	1	10	...	...	...	...	12
Local	2	2	2	...	5	13	4	6	4	16	20	18	18	36	...	99	97	...	...	...	36	...	...	...	...	36
Developmental .....	...	...	...	...	...	3	...	...	1	1	3	4	...	4	...	7	11	...	...	...	4	...	...	...	...	4
Violence .....	...	...	...	...	...	...	1	1	...	...	2	1	1	2	...	3	3	...	...	...	2	...	...	...	...	2
Total	3	1	3	2	6	22	10	10	11	28	41	31	38	60	...	185	194	1	...	1	66	...	...	...	1	69

TABLE NO. 9.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 9.
For the year ending December 31st, 1890.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 60 years.	Under 80 years.	Under 70 years.	Over 70 years.	Males.		Females.		Married.	Single.	Color.	Prescription, No. of.	Visits made, No. of.	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
											Males.	W.	Females.	W.														
Zymotic.....	1	1	1	1	4	3	1	1	1	1	6	5	4	4	9	5	10	20	20	1	1	1	9	1	1	1	1	10
Constitutional.....	1	1	1	2	6	4	1	1	1	1	3	5	12	10	10	6	15	30	10	2	1	2	10	1	1	1	1	15
Local.....	1	1	1	2	6	3	2	2	2	2	6	4	10	12	12	4	16	23	10	1	1	1	14	1	1	1	1	16
Developmental.....	1	1	2	3	3	1	1	1	1	1	7	7	4	4	4	7	11	16	12	1	1	1	10	1	1	1	1	11
Violence.....	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	2	4	4	1	1	1	1	1	1	1	1	2
Total.....	2	3	3	8	16	10	5	3	3	1	24	54	30	31	23	23	54	98	56	4	8	4	43	1	1	1	1	54

TABLE No. 10.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 10.
For the year ending December 31st, 1890.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
															White.	Colored.											
Zymotic.....	2	1	1	2	2	7	2	2	1	1	8	10	7	11	15	3	43	41	2	3	9	1	3	1	3	18	
Constitutional.			2			2	4	1	1	1	4	7	9	2	11		29	14	1	3	2	4			1	11	
Local	1		2	5	11	36	12	8	5		22	48	36	44	70	10	197	66	11	12	11	34	1	10	1	80	
Developmental						2						2		2	2		7	9				2				2	
Violence		1	1	4	3	3	1	3	2		9	6	6	9	12	3	31	26	2	1		8	1	1	3	15	
Total.....	2	3	6	5	17	30	19	14	8	2	53	73	53	68	110	16	312	166	16	16	16	55	3	16	2	123	

TABLE NO. II.
 THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 11.
 For the Year ending December 31, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of.	Visits made, No. of.	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
														White.	Colored.											
Zymotic	1	4	6	5	5	5	...	2	...	10	13	5	18	23	...	60	111	10	5	2	5	...	1	...	...	23
Constitutional .....	...	1	2	1	4	2	5	4	...	7	12	13	6	19	...	30	16	2	3	1	12	...	...	...	1	19
Local	3	2	4	6	10	6	3	...	...	15	21	20	16	38	...	68	54	10	11	1	12	...	1	...	1	38
Developmental .....	...	...	...	...	...	2	1	1	...	1	3	4	...	4	...	6	11	...	1	2	1	...	...	...	...	4
Violence .....	...	...	1	1	...	3	2	2	2	6	5	9	2	11	...	19	16	...	3	2	4	...	...	...	...	11
Total	3	3	7	12	13	24	11	11	8	2	39	54	42	93	...	181	208	22	23	8	34	...	2	...	...	93

REPORT OF DISTRICT PHYSICIAN No. 13.

CLEVELAND, O., March 9, 1881.

W. B. Rezner, M. D., Health Officer :

DEAR SIR—In reply to your request for such suggestions having a sanitary bearing in my district, as I may deem it desirable to make, allow me to say, in the first place, that after such a protracted winter as we have just experienced, there is always a considerable, sometimes a large accumulation of rubbish and filth in back yards generally, the removal of which should be accomplished as early as practicable. In the next place, the streets are correspondingly dirty, the alleys especially being made depositories of ashes, etc.

It is the practice of the powers that be never to clean the streets of this district before the middle or latter part of July each year, and they receive no further attention till the next summer rolls round. It is obvious that they should be cleaned and rounded up as soon as the weather becomes settled, and before they become so dry and dusty that the operation is a nuisance to all living on the street. Finally, the grade of a majority of the streets in my district is very defective, being so nearly level that the slightest obstruction causes a damming up of the water for half or three-fourths of a square, where I have known it to lie in the summer time until it became covered with a green scum and emitted odors far from agreeable.

So far as I am aware, there are no tenement houses in the district requiring attention.

The Walworth Run nuisance just borders my district, but has received so much attention of late that it requires no notice at my hands.

If the stagnant water bordering Central Way, and between Clyde street and the Valley Railroad, was drained off by means of ditches running to the river, as I think it could be, it would materially reduce the prevalence of malarial diseases in that section.

Respectfully submitted,

W. J. SHEPPARD,

Physician Thirteenth District.

TABLE NO. 13.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 13.
For the year ending December 31st, 1890.

DISEASES, ETC.	Age.										Sex.		Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Single.	White.	Colored.										
Zymotic.....	3	4	2	2	1	1	1	1	1	1	2	13	2	15	52	57	10	1	1	2	1	1	1	1	15
Constitutional.....	1	1	1	1	3	1	3	1	1	1	3	4	6	7	29	25	2	2	1	2	2	2	2	2	7
Local.....	1	1	2	9	4	17	6	1	3	3	24	15	21	38	168	113	12	15	4	5	3	3	3	3	39
Developmental.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Obstetrical cases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Total.....	4	5	4	12	4	22	9	1	5	5	39	38	30	62	249	197	22	18	5	9	3	4	1	1	62

TABLE NO. 14.
 THE ANNUAL REPORT OF PHYSICIAN. FOR DISTRICT NO. 14.
 For the year ending December 31st, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
														White.	Colored.											
Zymotic.....	1							1		2	2	1	1	2	2	2	2	2	2						2	
Constitutional.....						1	1	1		2	2	2	2	4	4	5					8			1	4	
Local.....	1		2	1		7	4	2	1	8	10	14	4	16	2	19	21	4	1		9		3	1	16	
Developmental.....	1		1			1				1	2	1	2	3	3	4	1	1		1		1			3	
Violence.....								1		1	1	1	1	1	1	1	1							1	1	
Total.....	3	3	3	1	1	9	4	4		14	14	19	9	26	2	29	33	7	1		13		4	2	1	28

TABLE NO. 15.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 15:
For the year ending December 31, 1888

DISEASES, ETC.	Age.										Color.	Single.	Married.	Males.	Females.	Over 70.	Under 70 years.	Under 60 years.	Under 50 years.	Under 40 years.	Under 30 years.	Under 20 years.	Under 10 years.	Under 5 years.	Under 2 years.	Under 1 year.	Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
	1 year.	2 years.	5 years.	10 years.	20 years.	30 years.	40 years.	50 years.	60 years.	70 years.																											
Zymotic	1	1	3	2	1	1	1	1	1	1	W.	5	2	3	2	1	1	1	1	1	1	1	1	1	1	1	10	15	1	1	1	1	1	1	1	1	5
Constitutional	1	1	1	1	1	1	1	1	1	1	"	2	1	4	1	1	1	1	1	1	1	1	1	1	1	1	20	19	1	3	1	1	1	1	1	1	5
Local	1	2	1	1	1	1	1	1	1	1	"	6	10	7	11	3	1	1	1	1	1	1	1	1	1	1	41	51	8	8	1	1	1	1	1	1	18
Developmental	1	1	1	1	1	1	1	1	1	1	"	1	6	2	2	1	1	1	1	1	1	1	1	1	1	1	8	9	2	2	1	1	1	1	1	1	4
Total	22	23	3	3	6	4	5	2	4	1	16	16	16	16	16	1	4	2	6	11	13	79	94	11	13	6	79	94	11	13	6	7	1	2	2	2	23

TABLE No. 16.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 16.
For the year ending December 31st, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
															White.	Colored.											
Zymotic	3	3	3	3	3	4	6	1	1	.....	8	12	10	10	13	7	105	36	11	..	.....	2	.....	.....	7	20
Constitutional	1	1	2	6	10	2	1	1	.....	.....	10	12	12	10	14	8	44	16	13	1	.....	.....	.....	.....	8	22
Local	2	2	3	3	16	10	3	1	1	1	19	24	25	18	34	9	107	93	15	8	3	6	2	9	43		
Developmental .....	.....	.....	.....	2	3	.....	.....	.....	.....	.....	.....	5	4	1	2	3	21	19	2	.....	.....	.....	.....	3	5	
Violence .....	.....	.....	.....	3	2	.....	.....	.....	.....	.....	4	1	1	4	3	2	16	14	1	1	1	..	1	2	5	
Total	5	3	5	5	17	35	18	5	1	1	41	54	52	43	66	23	298	178	42	10	3	8	.....	3	29	95

TABLE NO. 17.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 17.
 For the year ending December 31st, 1880.

DISEASES, ETC.	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Males.	Females.	Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
														White.	Colored.											
Zymotic	1	1	1	4	1	3	1	1	...	3	8	4	7	11	...	43	4	4	1	4	2	...	...	...	...	11
Constitutional .....	...	...	...	1	7	11	6	...	...	15	10	9	16	24	1	150	1	11	5	3	5	...	1	1	...	25
Local	2	3	7	...	...	22	7	...	1	23	19	22	20	38	3	188	18	17	6	5	8	...	3	3	...	42
Violence	1	1	1	...	...	...	...	...	...	1	2	1	2	6	...	5	8	...	...	...	...	...	...	...	...	3
Total	4	5	12	9	36	14	...	1	...	42	39	36	45	80	4	387	31	32	12	12	15	...	4	4	...	81

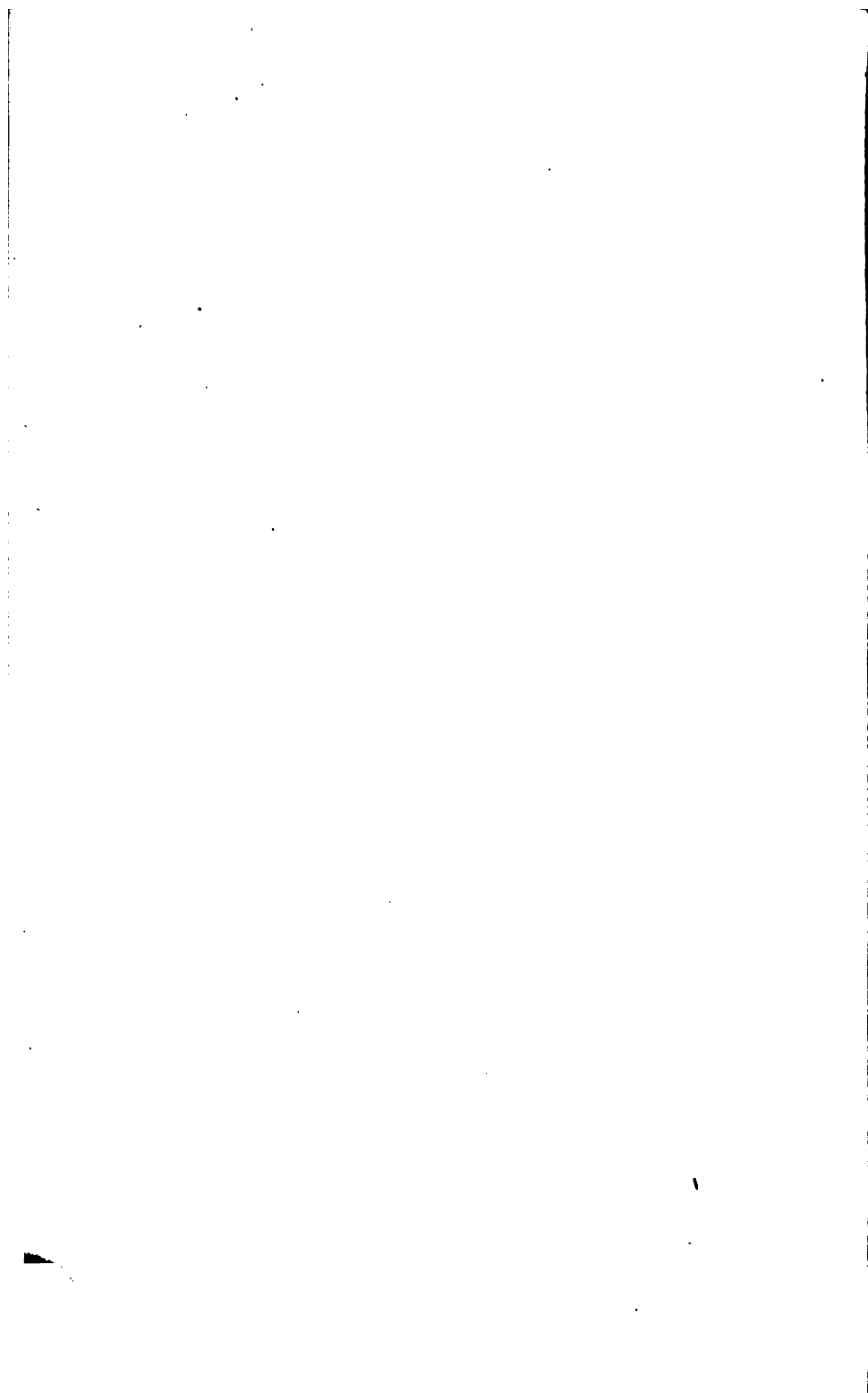
TABLE NO. 18.
THE ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 18.
For the year ending December 31st, 1880.

DISEASES, ETC.	Age.										Married.	Single.	Color.		Prescription, No. of	Visits made, No. of	American.	German.	English.	Irish.	Jews.	Bohemians.	Negroes.	All others.	Total.
	Under 1 year.	Under 2 years.	Under 5 years.	Under 10 years.	Under 20 years.	Under 40 years.	Under 50 years.	Under 60 years.	Under 70 years.	Over 70 years.			White.	Colored.											
Zymotic.....	1	2	2	4	3	8	1	1	2	...	12	10	24	...	123	118	2	...	9	13	...	...	...	...	24
Constitutional. ....	...	1	1	...	3	4	6	4	1	1	6	15	21	...	74	59	1	...	6	13	...	1	...	...	21
Local .....	...	4	7	11	14	30	12	16	7	4	43	62	105	...	241	139	17	2	35	49	...	2	...	...	105
Developmental	1	...	...	...	...	2	...	...	...	...	1	2	3	...	7	5	...	...	1	2	...	...	...	...	3
Violence.....	1	1	1	1	...	...	1	1	...	...	3	3	6	...	20	4	...	...	3	3	...	...	...	...	6
Total.....	3	8	11	16	20	44	20	22	10	5	65	94	159	...	465	325	20	2	54	80	...	3	...	...	159

**CONSOLIDATED ANNUAL REPORT OF THE DISTRICT PHYSICIANS
FOR THE YEAR 1880.**

Showing the Population by Wards, number of cases treated, number of visits
and prescriptions. Population to each case, and number of visits
and prescriptions to each case.

WARDS.	Pop. by Wards, Census of 1880.	No. of Cases.	No. of Pre- scrip's	No. of Visits.	Pop. to each case.	Pres. to each case.	Visits to each case.
First.....	8,363	832	2,464	1,029	10.05	2.96	1.24
Second.....	6,097	110	278	225	55.43	2.53	2.05
Third.....	3,010	267	476	283	11.27	1.78	1.06
Fourth.....	11,413	128	222	327	89.16	1.73	2.55
Fifth.....	12,390	53	162	141	233.21	3.06	2.66
Sixth.....	20,238	38	107	98	532.58	2.82	2.58
Seventh.....	10,503	60	129	140	175.05	2.15	2.33
Eighth.....	7,389	69	195	194	106.80	2.83	2.81
Ninth.....	6,628	54	99	56	122.74	1.83	1.04
Tenth.....	9,428	126	312	156	74.83	2.48	1.24
Eleventh.....	12,271	93	181	208	131.96	1.94	2.24
Twelfth.....	10,595	280	1,906	1,641	37.52	7.13	5.86
Thirteenth.....	7,623	62	249	197	122.96	4.02	3.18
Fourteenth.....	9,375	28	33	29	334.82	1.18	1.04
Fifteenth.....	5,962	32	79	94	186.31	2.47	2.94
Sixteenth.....	4,591	95	298	178	48.33	3.14	1.87
Seventeenth.....	4,111	81	387	31	50.75	4.78	.38
Eighteenth.....	10,611	159	465	327	66.74	2.92	2.06
Totals.....	160,458	2,567	8,132	5,354	62.51	3.17	2.09



SANITARY POLICE
REPORT.

SANITARY INSPECTION REPORT FOR DISTRICT NO. 1.
For the year ending December 31, 1890.

Months.	Alleys, filthy.		Animals, dead.		Ashes.	Catch basins	Cellars cleaned.	Cellars, habitations.	Cesspools.	Chicken coops.	Drainage, surface.	Factories, soap.	Gutters.	Houses, filthy.	Houses, unfit for habitation.	Houses, drain ventilation.	Houses, slaughter.	Loats, filthy.	Loats, stagnant water.	Manure.	Markets.	Miscellaneous.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers.	Sewers, connection.	Stables.	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy, closed.	Vaults, privy, new.	Vaults, privy, cleaned.	Yards.	Total.
	January	February	March	April	May	June	July	August	September	October	November	December	Total																									
January	16	9	42	2	10	1	15	2	17	8	1	1	25	9	12	10	18	1	7	6	12	2	23	44	10	2	1	8	15	13	361							
February	13	11	52	13	2	12	3	20	1	3	15	12	1	2	1	29	7	15	18	18	5	10	3	16	1	20	28	11	2	1	2	18	14	376				
March	22	8	105	10	16	16	2	7	13	5	5	36	11	9	15	10	7	10	10	15	1	19	29	6	2	10	22	38	463									
April	18	13	59	16	1	13	19	3	2	17	1	4	1	22	4	9	7	31	1	8	7	23	1	16	25	13	1	1	27	16	389							
May	17	1	80	1	2	9	8	1	27	3	1	2	13	6	2	9	7	25	1	4	4	24	1	1	29	25	307											
June	13	2	81	2	9	5	12	3	1	1	1	1	16	7	3	5	9	1	2	14	1	6	4	26	1	6	26	40	313									
July	10	50	2	5	6	4	1	3	4	1	3	4	12	1	3	2	4	12	1	6	1	33	2	18	17	206												
August	8	5	38	8	4	3	1	5	1	5	1	9	9	3	5	8	3	4	1	31	26	16	177															
September	10	72	1	6	4	5	1	2	1	16	1	3	2	1	4	14	3	4	83	2	17	13	218															
October	14	45	1	3	4	3	1	4	2	1	11	5	1	1	2	7	3	1	5	18	2	19	4	161														
November	9	3	21	5	5	1	9	1	1	4	9	2	9	2	9	6	1	4	21	2	13	25	151															
December	12	1	16	3	3	5	2	7	2	7	2	8	4	2	3	13	1	5	19	4	121																	
Total	171	53	668	17	92	9	81	114	14	18	104	53	3	14	7	214	2	52	59	72	131	15	37	116	181	32	104	826	41	7	4	41	249	823				

Made 13 arrests during year ending December 31st, 1890. Each case was fined in police court, excepting one, which was dismissed.

SANITARY INSPECTION REPORT FOR DISTRICT NO. 2.

For the year ending December 31st, 1880.

MONTHS.	Total.																																				
	Alleys, filthy.	Animals, dead.	Ashes.	Catch basins.	Cellars, cleaned.	Cellars, habitations.	Cesspools.	Chicken coops.	Drainage, surface.	Factories, soap.	Gutters.	Houses, filthy.	Houses, unfit for habitation.	Houses, drain ventilation.	Houses, slaughter.	Lots, filthy.	Lots, stagnant water.	Manure.	Markets.	Miscellaneous.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers.	Sewers, connection.	Stables.	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy, closed.	Vaults, privy, new.	Vaults, privy, cleaned.	Yards.	Total.	
January	98	12							1			9			24	12					9	6							20							5	186
February	27	6										2			17	13					2								5	10					3	13	98
March	8	22										9			12	13					2	9							6						14	2	99
April	2	16										5			12	14					4	2							9						4	...	68
May	12	22										1			20	13					1								3			2			16	22	130
June		17										8			24	19					7								19			3			7	24	142
July		21													12	10					3								6			3			2	4	87
August		16													17	21					6								1			1			11	1	76
September		15													7	15					42								5			5			38	1	127
October		12													3	10					15								7						22	...	72
November		20													11	7					2	1							4			1			67	...	127
December		22														16																			13	...	75
Total	199	161							2	14	6	5	42		159	168					24	41	46	6			4	12	5	119				15	196	72	1297

SANITARY INSPECTION REPORT FOR DISTRICT NO. 4.

For the year ending December 31, 1880.

MONTHS.	Alleys, filthy.	Animals, dead.	Ashes.	Catch basins.	Cellars cleaned.	Cellars, habitations.	Cesspools.	Chicken coops.	Drainage, surface.	Factories, soap.	Gutters.	Houses, filthy.	Houses, unfit for habitation.	Houses, drain ventilation.	Houses, slaughter.	Loos, filthy.	Loos, stagnant water.	Manure.	Markets.	Miscellaneous.	Pig-pens.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers.	Sewers, connection.	Stables.	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy closed.	Vaults, privy new.	Vaults, privy cleaned.	Yards.	Total.	
January	158	13	53	4	36	2	12	38	4	3	62	41	41	12	12	2	1	162	4	45	12	15	38	3	19	9	14	6	16	68	13	9	6	20	73	227	1210	
February	170	6	41	6	34	13	38	8	59	46	59	46	46	2	3	2	172	4	38	8	28	53	5	18	18	23	7	34	205	10	7	5	9	99	225	1433		
March	154	9	44	6	32	11	35	6	4	56	57	57	57	5	10	1	110	6	34	10	21	54	7	19	15	19	8	32	199	16	9	7	14	66	168	1245		
April	40	...	3	8	4	4	1	18	24	1	18	24	24	3	...	...	48	...	...	...	2	7	4	...	8	...	3	34	3	34	3	...	28	56	298
May	28	1	1	12	1	13	10	18	10	18	18	37	4	5	...	8	...	7	4	5	2	3	41	4	2	1	16	62	285		
June	11	...	...	4	3	4	4	2	...	...	4	2	2	...	...	...	12	...	...	...	2	...	2	...	1	...	2	21	...	...	...	...	15	18	105
July	22	...	...	10	2	3	4	2	...	...	4	2	2	...	...	...	22	...	...	...	2	5	...	6	...	8	7	3	34	5	...	4	64	16	219
August	46	...	...	11	6	5	14	3	...	...	14	3	3	...	...	...	35	...	...	...	3	12	9	...	4	6	3	61	...	...	3	60	56	387	
September	28	...	...	5	3	1	5	...	...	...	5	...	...	...	...	...	27	...	...	...	...	10	5	4	...	1	...	29	1	...	3	19	36	176	
October	61	...	...	5	4	5	11	5	...	...	11	5	5	...	...	...	30	...	...	...	4	17	2	...	10	1	1	53	...	...	...	9	50	276	
November	32	...	...	8	8	2	12	6	...	...	12	6	6	...	...	...	24	...	...	...	4	16	1	2	...	5	1	5	51	1	...	2	...	23	213
December	32	...	...	14	8	4	4	18	...	...	4	18	18	...	...	...	38	...	...	...	5	10	2	...	10	2	4	62	2	...	...	...	19	232	
Total	782	20	138	20	179	779	153	18	16	239	220	220	220	22	25	4	717	18	117	59	141	176	27

Made 10 arrests during year.

SANITARY INSPECTION REPORT FOR DISTRICT NO. 5.
For the year ending December 31, 1890.

MONTHS.	Alleys, filthy.	Animals, dead.	Ashes.	Catch basins	Cellars cleaned.	Cellars, habitations.	Cesspools.	Chicken coops	Drainage, surface.	Factories, soap.	Gutters.	Houses, filthy.	Houses, unfit for habitation.	Houses, drain ventilation.	Houses, slaughter.	Lots, filthy.	Lots, stagnant water.	Manure.	Markets	Miscellaneous.	Pig-pens.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers, connection	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy, closed.	Vaults, privy, new.	Vaults, privy, cleaned.	Yards.	Total.			
January.....			44													12	47	18																	121			
February.....			22					1								9	29	10											14						85			
March.....			32													8	17	6											20						83			
April.....			30													21	15	3											8						77			
May.....		3	17	3	2	3	14					1	1			15	9	28			15	18	3		1	1	19	2	13		2	1	3			174		
June.....		3	4	9	4	2	1	9	6		9		2			11	7	25	2		9	42	11	4		31	3	4	1	5	3	4	41		79	331		
July.....		1	2	4	3	1	1	1	6	2	3	1	1			14	3	31		15	25	9	2	3			4	4	7		1	1	3	8	29	47	228	
August.....				1		2	1	1	2		2	1			2	4	17		8	21	2	1		1		14		4	1	1	2	6	6	17	113			
September.....			5	1	2	4	3	3			1					10	4	15		16	8	3	6			1		7				2	66	223				
October.....		2	17	2	6	6										4	4	6		16	5	1	9						2			3	120	224	432			
November.....			2													5				9	2	10	1		1								9	98	118	254		
December.....																																			5	29	97	129
Total.....	6	9	182	12	9	15	21	31	2		15	3	4	2	108	27	290	2	125	121	30	27	8	2	1	60	9	76	2	9	9	40	362	648	2250			

SANITARY INSPECTION REPORT FOR DISTRICT NO. 6.

For the year ending December 31st, 1890.

MONTHS.	Alleys, filthy.	Animals, dead.	Ashes.	Catch basins	Cellars, cleaned.	Cellars, habitations.	Cesspools.	Chicken coops.	Drainage, surface.	Factories, soap.	Gutters.	Houses, filthy.	Houses, unfit for habitation	Houses, drain ventilation	Houses, slaughter.	Lots, filthy.	Lots, stagnant water.	Manure.	Markets.	Miscellaneous.	Pig-pens.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers, connection.	Stables.	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy, closed.	Vaults, privy, new.	Vaults, privy, cleaned.	Yards.	Total.	
January	3	30						35			9	9				20	25	25		14	43					24	9	27		2	31	31			312		
February			2	4	34			38			15	15			1	00	25	25	2							16	5	39		5		66			260		
March			27	22		1	28				7	7				77	12	20	3	25						13		33		3		32			333		
April			6	53		43		43			10	10				90	15	15	4	37						15		34		3		36			362		
May			1													3	3		1																15		
June			1	6												11	11	11	2	19						1		1				45			100		
July				2			3				1	1				29	1	17	1	18												3		53			130
August					1		3				1	1				42	13	13	4	6											1		36			109	
September			1	5			6				2	2						10	7	7						1					2		57			98	
October				3			3									28	10	10	2	10													32			88	
November							1	2								12	5	5	2	5													47			74	
December											2	2				1			8														31			44	
Total	13	174		67	46	2	163				47	47			1	412	17	151	2	28	77	116	116			70	9	134		20	31	475			2853		

Miscellaneous.		Pig-pens.		Privies, dilapidated.		Privies, filthy.		Privies, new.		Sewers.		Sewers, Connection.		Stables.		Stables, cow.		Streets, filthy.		Swill and garbage.		Water closets.		Wells.		Vaults, privy, closed.		Vaults, privy, new.		Vaults, privy, cleaned.		Yards.		Total.	
91	51	46	118	18	38	23	64	43	57	165	32	22	54	42	140	265	2698																		
65	40	50	83	25	42	35	60	22	75	337	32	18	11	20	204	209	2802																		
61	36	78	81	25	40	31	51	33	64	314	20	19	20	36	150	217	2600																		
19	27	63	40	12	22	14	62	17	43	117	23	15	12	17	108	72	1639																		
31	38	23	31	16	12	60	13	31	14	99	15	10	16	19	184	122	1436																		
18	60	16	30	5	6	14	2	44	7	71	2	13	3	12	121	170	1125																		
18	41	16	24	9	13	24	1	26	13	26	5	7	3	17	174	92	1073																		
8	37	14	20	1	6	15	3	12	4	97	1	3	2	15	190	98	917																		
19	23	37	22	4	1	14	7	10	10	87	4	8	2	8	126	122	928																		
21	14	37	23		11	8	3	5	5	80		1		5	123	124	1146																		
9	12	21	25	2	10	7	1	5	4	70	1	1		16	240	170	870																		
24	6	13	18		13	4	4	0	4	75	3			13	115	123	689																		
384	385	420	521	112	215	25	283	267	500	1604	147	117	123	220	2344	204	17367																		

SANITARY INSPECTION REPORT FOR DISTRICT NO. 6.

For the year ending December 31st, 1880.

MONTHS.	Alleys, filthy.	Animals, dead.	Ashes.	Catch basins	Cellars, cleaned.	Cellars, habitations.	Cesspools.	Chicken coops.	Drainage, surface.	Gutters.	Houses, filthy.	Houses, unfit for habitation	Houses, drain ventilation	Houses, slaughter.	Lots, filthy.	Lots, stagnant water.	Manure.	Markets.	Miscellaneous.	Pir-pens.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers, connection.	Stables.	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy, closed.	Vaults, privy, new.	Vaults, privy, cleaned.	Vaults.	Total.
January	3	30					35				9				20	25				14	43				24	9	27			2	31		31	312	
February		2	48	34			38				15			1	09	25			2						16	5	39			5	06		06	280	
March			27	23	1		28				7				77	12	20		3	35				13		33			3	32		32	333		
April		6	53	46			43				10				00	15	15		4	37				15		34			3	30		30	382		
May		1													3	3			1													7		15	
June		1	6												11	11	11	1	2		19			1		1				1	45			100	
July				2			3				1				29	1	17	1	2		18									3	53			130	
August				1			3				1				42	13	4			4	6									1	38			100	
September		1		5			6				2					10	7		7		7			1						2	57			98	
October				3			3								28	10	2		2	10											32			88	
November							1	2							12	5			2	5												47			74
December							2				2				1					8													31		44
Total	13	174	67	46	2	183					67			1	412	17	151	2	38	77	116				70	9	134		20	31	475		3865		

Miscellaneous.	Pig-pens.	Privies, dilapidated.	Privies, filthy.	Privies, new.	Sewers.	Sewers, Connection.	Stables.	Stables, cow.	Streets, filthy.	Swill and garbage.	Water closets.	Wells.	Vaults, privy, closed.	Vaults, privy, new.	Vaults, privy, cleaned.	Yards.	Total.
91	51	46	118	18	38	23	64	43	57	165	32	22	54	42	140	265	2898
65	40	50	83	25	42	35	60	32	75	337	32	18	11	20	204	269	2802
61	36	78	81	25	40	31	51	33	64	314	20	19	20	36	150	217	2600
19	37	03	46	12	22	14	62	17	43	117	23	15	12	17	108	72	1639
31	38	23	31	16	12	60	13	31	14	99	15	10	16	19	184	122	1436
18	60	10	30	5	6	14	2	44	7	71	2	13	3	12	221	170	1125
18	41	16	24	9	13	24	1	26	13	26	5	7	3	17	274	82	1078
8	37	14	20	1	6	15	3	22	4	97	1	3	2	15	190	98	917
19	23	37	22	4	2	14	7	10	10	87	4	8	2	8	226	122	928
21	14	37	23		11	8	3	5	5	80		1		5	283	284	1146
9	12	21	25	2	10	7	1	5	4	76	1	1		16	240	170	870
24	6	13	18		13	4	4	0	4	75	3			13	115	123	680
384	385	420	521	112	215	25	283	267	300	1604	117	117	123	250	2344	2,04	15037

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ANNUAL REPORT
OF THE
PROCEEDINGS
OF THE
POLICE COURT,
FOR THE YEAR ENDING DECEMBER 31, 1880.

POLICE COURT REPORT.

To the City Council of the City of Cleveland :

NUMBER PERSONS ARRAIGNED.

City Cases,....	Number persons.....	5,809	
State Cases,...	Number persons..	1,006	
State Examina- tions.	Number persons ...	230	
	Total number arraigned		7,135

COMMITTED TO WORKHOUSE.

City Cases	Number of persons.....	818	
State Cases.....	Number of persons.....	228	
	Total number committed.		1,046
City Cases.....	Amount in days upon commitments ..	15,147	
State Cases.....	Amount in days upon commitments ..	4,189	
	Total number days.		19,336
City Cases	Amount of fines upon commitments	\$12,532 00	
City Cases	Amount of costs upon commitments.	1,107 57	
State Cases	Amount of fines upon commitm ents.	6,211 00	
State Cases	Amount of costs upon commitments.	1,300 15	
	Total amount of fines and costs		\$21,150 72

FINES AND COSTS ASSESSED.

City Cases.....	Fines assessed.....	\$21,270 00	
State Cases.....	Costs assessed.....	5,337 06	
	Total amount.....		\$26,607 06
City Cases.....	Fines assessed.....	8,153 00	
State Cases.....	Costs assessed.....	5,058 35	
	Total amount.....		13,211 35
	Total amount of fines and costs assessed in both city and state cases		39,819 01

FINES AND COSTS COLLECTED IN CASH.

City Cases.....	Fines collected.....	\$ 8,480 80	
State Cases.....	Costs collected.....	3,480 50	
	Total collection in city cases.....		\$11,971 30
State Cases.....	Fines collected.....	1,095 00	
State Cases.....	Costs collected.....	3,164 54	
	Total collections in state cases..		4,859 54
	Total amount cash which was collected in both State and City cases		16,830 84

DISPOSITION OF CASH COLLECTED.

	Paid to City Treasurer.....	\$9,648 02
	Paid to Board of Police Commiss'ners	2,323 28
	Paid to County Treasurer.....	4,789 54
	Paid to Humane Society.....	70 00
	Total cash paid.....	\$16,830 84

REPORT OF POLICE COURT.

543

WITNESSES' AND JURORS' FEES.

Amount certified to City Auditor.....	\$1,164 00
Amount certified to County Auditor.	2,439 25

STATE EXAMINATIONS.

Costs where defendant was bound over.....	\$1,028 56
Costs where defendant was dismissed	261 52
Costs where case was nolle.....	130 08
Costs where case was withdrawn.....	13 67
Total costs.....	\$2,333 83

RECAPITULATION OF CASES.

CITY CASES.

Intoxication	2,800
Disturbance	548
Disorderly conduct.....	498
Violating sidewalk ordinance.....	299
Suspicious person.....	190
Vagrancy	167
Visiting house of ill-fame.....	128
Violating railroad ordinance.....	124
Indecent conduct.....	107
Destroying property.....	95
Residing in house of ill-fame	98
Violating health ordinance.....	69
Abusing family.....	58
Keeping house of ill-fame.....	58
Violating street ordinance.....	48
" bathing ordinance.....	41
" property ordinance.....	40
Careless driving.....	38
Common prostitute.....	28
Visiting gambling house.....	25
Fast driving.....	24
Violating pound ordinance.....	23
Common beggar.....	21
Violating Sunday liquor ordinance.....	19
" hack	18
" peddling	17
" junk	17
" park	17
" market	15
" bootblack	15
" weight and measure ordinance...	13
" express ordinance.....	12
Keeping disorderly house.....	12
Habitual disturber of the peace.....	11
Gambling	11
Violating fire arms ordinance.....	11
Indecent exposure of person.....	10
Violating bridge ordinance.....	10
" gambling ordinance	10
" street railroad ordinance.....	9
" Viaduct ordinance.....	8
Keeping gambling house.....	7

Violating newsboy ordinance.....	6
" exhibition ordinance.....	5
Immoral conduct.....	5
Driving on sidewalk.....	4
Lewd behavior.....	4
Violating dray ordinance.....	4
" billiard ordinance.....	4
" public resort ordinance.....	3
" water works ".....	3
" fire ".....	3
" express wagon ".....	3
" measure ".....	3
Keeping gambling room.....	3
Peddling without a license.....	3
Violating music ordinance.....	2
" intelligence office ordinance.....	2
" fire telegraph ".....	2
Motion for new trial.....	2
Interfering with pound keeper.....	2
Selling prize packages.....	2
Demurrer to information.....	2
Using indecent language.....	2
Driving through funeral procession.....	1
Keeping gambling rooms.....	1
Violating hay ordinances.....	1
" sanitary ordinances.....	1
" wagon ".....	1
" carriage ".....	1
" bill board ".....	1
" waiter girl ".....	1
" harbor ".....	1
" street car ".....	1
Lewd and lascivious conduct.....	1
Rude conduct.....	1
Motion to dismiss.....	1
Permitting rooms to be used for gambling.....	1
Permitting rooms to be used and occupied for gambling.....	1
Total number.....	5,809

STATE CASES.

Assault and battery	367
Petit larceny.....	286
Contempt of court.....	60
Carrying concealed weapons.....	46
Violating railroad law	43
Incorrigible conduct.....	36
Obstrusting officer.....	34
Cruelty to animals.....	21
Embezzlement.....	18
Destroying property.....	15
Obtaining money by false pretenses.....	15
Intoxication, State law.....	12
Resisting officer.....	12
Violating election liquor law	11
Buying and receiving stolen property	9
Maliciously destroying property.....	9
Motion for a new trial.....	9
Receiving stolen property	7
Selling liquor to minors.....	6
Wrongfully using a horse	6
Cruelty to minor children.....	4
Having an indecent model.....	3
Assaulting officer.....	3
Obtaining goods by false pretenses.....	3
Violating street railroad law	3
Motion in arrest of judgment.....	3
Notice and motion	3
Threatening in a menacing manner.....	3
Visiting house of ill-fame.....	3
Adultery.....	3
Concealing stolen property	2
Abusing animal.....	2
Selling land to defraud creditors.....	2
Violating lottery law.....	2
" pawnbroker law	1
Assault and threatening in a menacing manner.....	1
Having in possession an indecent model.....	1
Attempting to provoke a breach of the peace.....	1
Assaulting	2
Keeping house of ill-fame.....	6
Buying stolen property.....	1
Rescued by force	1
Malicious destruction of railroad property.....	1
Motion for suspension of execution of sentence.....	1
Wrongfully using a mare	1
Violating street car law.....	1
House breaking in day time.....	1

Maliciously throwing down a fence	1
Carrying obscene literature.....	1
Motion to retax costs	1
Carrying obscene pictures.....	1
House breaking.....	1
Illegal voting.....	1
Residing in house of ill-fame.....	1
Escaping from Workhouse.....	1
Carrying an indecent model	1
Playing game for money.....	1
Disturbing religious meeting.....	1
Personating an officer.....	1
Sending letter containing threats of injury to the person.....	1
Motion to hear evidence in mitigating a sentence	1
Motion to suspend sentence to file a petition in error.....	1
Total number.....	1,006

STATE EXAMINATIONS.

Grand larceny	63
Burglary.....	22
Burglary and larceny.....	14
Robbery.....	9
Horse stealing	9
Stabbing with intent to wound	8
Insane	8
Fugitive from justice.....	8
Cutting with intent to wound	8
Embezzlement	5
Assault with intent to kill.....	4
Shooting with intent to wound	4
Buying and concealing stolen property	4
Buying and receiving stolen property.....	4
Passing counterfeit money.....	4
Issuing fraudulent warehouse receipts	4
Administering poison with intent to kill.....	4
Receiving stolen property	4
Shooting with intent to kill.....	4
Assault with intent to rape.....	3
Manslaughter.....	3
Assault with intent to wound.....	2
Bigamy.....	2
Forgery.....	4
Receiving and concealing stolen property.....	2
Rape	2
Murder	2
Highway robbery	2
Illegal voting.....	2
Larceny of animals other than the horse and mule kind.....	2

Abortion	1
Blackmailing.....	1
Assault with intent to rob.....	1
Deserter.....	1
Stabbing with intent to kill.....	1
Voting out of own township.....	1
Fraudulently voting.....	1
Seduction.....	1
Arson.....	1
Violating United States Revenue Law.....	1
Voting not having resided a year in the State.....	1
Entering building in the night season to commit a felony.....	1
Administering an unknown compound and causing a miscarriage.....	1
Petit larceny (bound over)	1
Total number.....	230

Respectfully submitted,

WILLIAM BAXTER, *Police Clerk.*

SEVENTH

ANNUAL REPORT

OF THE

BOARD OF

FIRE COMMISSIONERS

OF THE

CITY OF CLEVELAND,

For the Year Ending December 31, 1880.

BOARD OF FIRE COMMISSIONERS.

OFFICE CITY HALL BUILDING, ROOM NO. 13.

GEORGE GLOYD.

Residence at No. 314 Perry Street, Citizen Member, Term Expires April, 1882.

T. M. WARNER.

Residence at No. 83 Prospect Street, Council Member, Term Expires April, 1881.

H. L. MELTON.

Residence at No. 18 Summit Street, Citizen Member, Term Expires April, 1881.

JOSEPH SLAGHT.

Residence at No. 325 Logan Avenue, Citizen Member, Term Expires April, 1883.

F. G. KAUFHOLZ

Residence at No. 30 Walton Avenue, Citizen Member, Term Expires April, 1884.

STANDING COMMITTEES.

MEN AND DISCIPLINE,
MESSRS. SLAGHT AND KAUFHOLZ.

ENGINES AND APPARATUS,
MESSRS. KAUFHOLZ AND WARNER.

HORSES AND HORSE FEED,
MESSRS. KAUFHOLZ AND SLAGHT.

BUILDINGS AND REPAIRS,
MESSRS. SLAGHT AND WARNER.

EQUIPMENTS,
MESSRS. WARNER AND MELTON.

TELEGRAPH,
MESSRS. MELTON AND SLAGHT.

WATER AND SUPPLIES,
MESSRS. MELTON AND KAUFHOLZ.

FINANCE,
MESSRS. WARNER, MELTON AND GLOYD.

OFFICERS OF THE DEPARTMENT.

JOHN A. BENNETT,

Chief Engineer.

Office at Engine House No. 1.

JAMES W. DICKINSON,

First Assistant Chief Engineer.

Office at Engine House No. 6.

H. H. REBBECK,

Second Assistant Chief Engineer and Superintendent of Telegraph.

Office in City Hall, Room No. 15.

JOSEPH SPEDDY,

Third Assistant Chief Engineer.

Office at Engine House No. 7.

The Chief and Assistants were appointed in May, 1876, and serve during good behavior,

Chief John A. Bennett was removed December 22d, and James W. Dickinson was unanimously appointed Chief to fill the vacancy.

FIRE COMMISSIONERS' REPORT.

OFFICE OF THE BOARD OF FIRE COMMISSIONERS, }
CLEVELAND, OHIO, December 31, 1880. }

To the Honorable, the City Council:

GENTLEMEN :—To conform with an established custom which has heretofore prevailed in the several departments of the city government, the Board of Fire Commissioners most respectfully submit the Seventh Annual Report, for the year ending December 31st, 1880, embracing the financial condition of the department, covering the aggregate receipts and disbursements, and the usual amount of matter that is generally given in similar reports.

The reputation of the Cleveland Fire Department is already established, and remains unsullied.

Comments upon the efficiency of the officers and men are unnecessary, as it is well known that fires in Cleveland have been as skillfully managed as any that have occurred in any part of the world.

There are one hundred and forty-two men on the Fire Department force, and during the year no deaths have been recorded, and no serious accidents have occurred.

On the last day of the year H. H. Rebbeck was promoted to the position of First Assistant Chief, to fill the vacancy occasioned by promoting James W. Dickinson to chief.

Joseph Speddy was promoted to the position of Second Assistant Chief, and A. A. Cavanah was made Third Assistant Chief.

FIRE DEPARTMENT FORCE AND SALARIES PER YEAR.

	Salaries per Annum.
John A. Bennett, Chief.....	\$2,000 00
James W. Dickinson, First Assistant Chief.....	1,700 00
H. H. Rebbeck, Second Assistant Chief and Sup't of Telegraph....	1,600 00
Joseph Speddy, Third Assistant Chief.....	1,500 00
A. J. Spencer, Secretary ..	1,300 00
Thirteen engineers, each.....	960 00
Thirteen stokers, each.....	744 00
Thirteen leading hosemen, each.....	744 00
Four Captains of Hook and Ladder Companies, each....	960 00
Four tillermen, each.....	744 00
One harness-maker.....	720 00
One line repairer.....	720 00
Three telegraph operators, each.....	720 00
Three supply drivers, each.....	720 00
Eighty-three firemen, each.....	720 00

APPARATUS.

The apparatus of the department consists of fifteen steamers, of which five are first-sized rotaries of the Silsby manufacture; four of the second-sized rotaries of the Silsby manufacture; two of the third-sized rotaries of the Silsby manufacture; two of the second-sized piston of the Amoskeag pattern; two of the third-sized piston, manufactured by C. Ahrens & Co.; four hook and ladder trucks, provided with fire extinguishers, ladders, buckets, etc.; four four-wheeled hose carriages; eighteen two-wheeled hose carts; eleven heaters; one aerial ladder; one patrol wagon; three heavy open buggies; three fuel wagons; one telegraph wagon, and six exercise wagons.

In Engine House No. 10 a chemical engine was left on trial several years ago, and as it has never been called for, it is evident that a donation is calculated.

HORSES.

There were sixty-seven horses in the department at the close of the year, and only two of them reported sick.

The veterinarian branch has been under the management of the Chief, and when the "epizootic" made its appearance again during the fall months, it was thought at one time it might be serious, but careful attention and good management prevented any trouble.

HOSE.

No. Ft.	Kind.	Name of Manufacturer.
3,650	Rubber.	Gutta Percha and Rubber Manufacturing Co., N. Y. City.
11,000	"	White Shield, by Cleveland Rubber Co.
1,200	"	Improved process, by Whitehead Bros., Trenton, N. J.
1,500	"	White Anchor, by B. F. Goodrich & Co., Akron, Ohio.
350	Linen.	Unique, by Gutta Percha Rubber Manufacturing Co.
50	Cotton.	Boyd, by " " " " "
50	"	Peerless, by Blake Hose Co., Boston, Mass.
100	"	Eureka Hose Co., N. Y. City.
50	"	Jacket Hose, by American Hose Co., N. Y. City.
18,000	....	Total number of feet of hose in the department.

Only two contracts for hose during the year, 3,000 feet of White Shield, manufactured by the Cleveland Rubber Co., and put in service in June, at 95 cents; 1,000 feet of White Anchor, manufactured by the Akron Rubber Co., at 87 cents.

HOSE CONTRACTS SINCE 1869.

Name of Manufacturer.	Kind.	When Purchased	No. Feet.	Price	Amount.
Bickford, Curtiss & Deming.	Leather.	Sept., 1869	5,000	1 60	\$8,000 00
B. F. Goodrich & Co., Akron, O.	Rubber.	May, 1872	3,000	1 30	3,900 00
New England Manufact'g Co.....	Linen.	Nov., 1874	1,000	1 14½	1,145 00
Cleveland Rubber Co.	Rubber.	Dec., 1874	1,000	98	980 00
Buckeye Rubber Co.	"	March, 1875	2,500	1 00	2,500 00
Buckeye Rubber Co.	"	June, 1875	2,100	1 00	2,100 00
Whitehead Bros., Trenton, N. J..	"	Dec., 1875	2,000	1 18	2,360 00
Whitehead Bros., Trenton, N. J..	"	Nov., 1875	1,750	1 18	2,065 00
Gutta Percha Co., N. Y.	"	Nov., 1875	1,750	1 25	2,187 50
Eureka Fire Hose Co.	Cotton.	Aug., 1876	500	1 10	550 00
Whitehead Bros., Trenton, N. J.	Rubber.	Aug., 1876	1,000	88	880 00
B. F. Goodrich & Co., Akron.....	"	Aug., 1876	1,000	98	980 00
Blake Hose Co., Boston, Mass....	Cotton.	Aug., 1876	500	1 00	500 00
Gutta Percha Co., N. Y.	Rubber.	Jan., 1877	1,000	98	980 00
Cleveland Rubber Co., Ohio.....	"	Jan., 1877	500	95	475 00
Gutta Percha Co., N. Y.	"	April, 1877	1,000	98	980 00
Cleveland Rubber Co., Ohio.....	"	April, 1877	1,000	95	950 00
Gutta Percha Co., N. Y.	"	May, 1877	1,000	98	980 00
B. F. Goodrich & Co., Akron.....	"	Aug., 1877	700	98	686 00
Blake Hose Co., Boston, Mass....	Cotton.	Oct., 1877	500	1 00	500 00
Gutta Percha Co., N. Y.	Rubber.	Dec., 1877	1,000	98	980 00
Gutta Percha Co., N. Y.	"	Jan., 1878	500	98	490 00
Cleveland Rubber Co., Ohio.....	"	April, 1878	1,000	95	950 00
Blake Hose Co., Boston, Mass....	Cotton.	May, 1878	500	87½	437 50
Gutta Percha Co., N. Y.	"	May, 1878	500	90	450 00
Gutta Percha Co., N. Y.	Linen.	May, 1878	1,000	60	600 00
Cleveland Rubber Co.	Rubber.	Dec., 1878	3,000	95	2,850 00
Cleveland Rubber Co.	"	June, 1879	2,000	95	1,900 00
Cleveland Rubber Co.	"	Nov., 1879	3,000	95	2,850 00
Cleveland Rubber Co.	"	May, 1880	3,000	95	2,850 00
Akron Rubber Co.	"	May, 1880	1,000	95	950 00

STATEMENT OF LOSSES AND INSURANCE, 1880.

Months.	Losses.	Insurance.
January.....	\$ 712 17	\$ 51,850 00
February.....	18,747 27	37,450 00
March.....	773 00	20,100 00
April.....	1,061 50	45,050 00
May.....	101,189 50	188,250 00
June.....	11,208 00	22,850 00
July.....	983 00	9,650 00
August.....	17,111 00	107,050 00
September.....	34,478 86	65,270 00
October.....	1,594 00	11,050 00
November.....	396 28	8,800 00
December.....	79,945 00	132,950 00
Total.....	\$268,799 58	\$700,320 00

Some of the most extensive fires during the year occurred in February, May, June, August, September and December.

On the 23d of February the Standard Oil Works lost \$15,000 from leaky still.

On the 4th of May the ice houses on Walworth Run caught fire, and Gustave Weitz and Bros. and C. E. Gehring sustained a loss of about \$12,500.

On the 6th of May the Telegraph Supply Co., A. N. Kellogg & Co., William Kaufman & Co., located in a large brick block on St. Clair street, lost more than \$86,000.

On the 24th of June the Eclipse Iron Works, at 48 Center street. Chambers & McBeath and Silas Merchant lost \$7,700.

On the 14th of August Lapham & Co., Rodgers. Vanek, Cleveland Box Machine Co., at 94 Leonard street, sustained losses amounting to \$15,500.

On the 10th of September the Lake Erie Nut and Bolt Works lost \$13,882.

On the 18th of September the Powell Tool and Plaster Co. lost \$16,000.

On the morning of the 17th of December, about one o'clock, the immense structure from 26 to 36 Superior street, on the Viaduct, occupied by the Cleveland Co-operative Stove Co., as offices, salesrooms and warehouses was completely destroyed by fire. This extensive building belonged to G. M. Atwater, whose loss is estimated at \$16,800 ; Lederer & Son lost \$16,000 : Co-operative Stove Co., \$45,000 ; total, \$77,800.

STATEMENT OF LOSSES AND FIRES SINCE APRIL 1. 1864

	DATE	YEAR.	NO. OF FIRES.	LOSSES.
To April	1	1865	68	281,341 48
"	1	1866	56	173,990 02
"	1	1867	111	206,942 82
"	1	1868	144	300,441 76
"	1	1869	149	196,984 19
"	1	1870	143	378,635 61
"	1	1871	149	300,453 71
"	1	1872	195	153,193 53
To December	31	1872	144	309,725 72
"	31	1873	157	348,410 64
"	31	1874	285	641,506 35
"	31	1875	284	137,122 66
"	31	1876	274	253,558 75
"	31	1877	320	25,910 50
"	31	1878	266	207,826 95
"	31	1879	294	215,357 96
"	31	1880	305	268,799 58

RECEIPTS AND DISBURSEMENTS

MONTHS.	DISBURSEMENTS.		RECEIPTS.
	Pay Roll.	Claims.	
January	9,373 81		13,942 93
February	9,321 66	3,562 25	11 00
March	9,309 54	3,708 71	102 20
April	9,375 00	2,992 54	139 50
May	9,364 58	2,759 29	51 00
June	9,387 55	1,995 80	75 00
July	9,450 38	3,651 83	75 50
August	9,434 96	5,802 36	79,998 78
September	9,433 63	3,311 55	50 00
October	9,406 43	2,046 25	7 58
November	9,345 24	1,224 59	318 00
December	9,315 31	2,994 40	100 04
		1,258 85	
	112,518 09	85,908 51	
To Balance		2,723 88	
Disbursed	148,426 60	38,632 39	
Receipts			151,150 48

FIRE DEPARTMENT FUND.

RESOURCES.		DISBURSEMENTS.	
Cash on hand Jan. 1, 1880....	13,942 93	Disbursed.....	148,426
Tax collections.....	134,969 12	Bal. on hand Dec. 31, 1880.	2,723
Deposits	1,286 09		
Warrants not drawn.....	852 34		
	\$151,150 48		\$151,150

It was fortunate that no serious accident occurred necessitating the expenditure of any extra amount of funds, as the balance is less than any time since 1874.

It is unwise to reduce the fund so low, for serious accidents may occur at any time, requiring an expenditure of several thousand dollars to make repairs.

The amount disbursed in 1879 was \$3,366.39 more than in 1880.

There are some localities which need more reservoirs, but none have been constructed, because the Fire Department Fund would not, in the opinion of the Board, warrant the expenditure.

The expenditures for engine repairs and for hose have been light when compared with previous years.

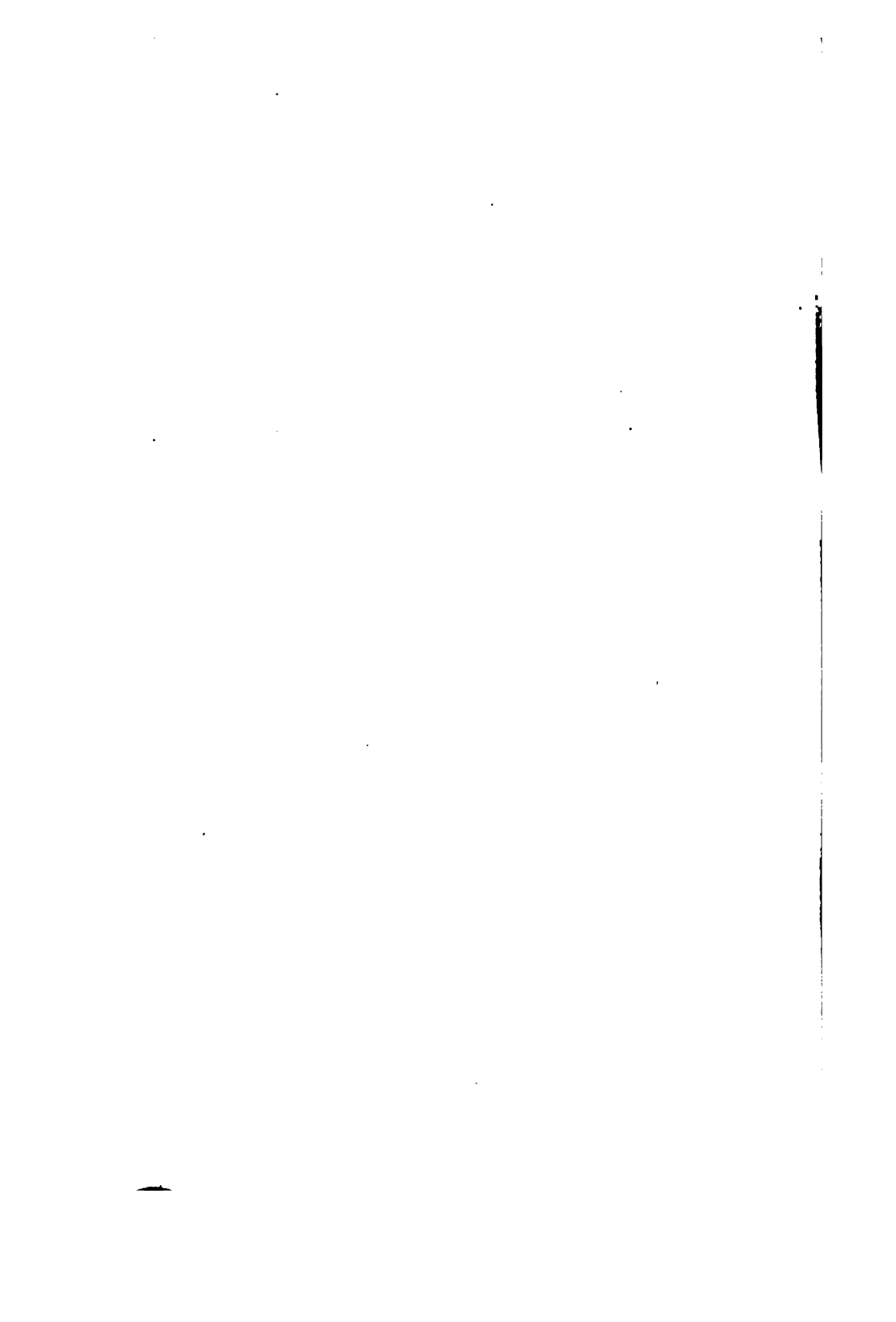
The Board has been unable to establish a hook and ladder company in the Twelfth ward, as contemplated, because of the fund.

A good company of five or six men, equipped with a truck and chemical engine, might be of great service in the Twelfth ward.

AND ORDERED PAID IN 1880.

Miscellaneous Supplies	Office Expenses.	Contingent Expenses.	Reservoirs & Repairs.	Telegraph.	Disbursements.	Receipts.
\$ 329 61	\$ 32 82	\$ 25 48	\$	\$ 9 18	\$ 12,936 06	\$ 14,056 13
206 78	.....	85 43	222 13	69	13,080 37	190 50
175 98	.....	108 33	113 28	139 12	12,302 08	150 50
46 12	.....	83 91	50 55	254 87	12,134 29	80,058 76
32 83	.....	192 05	.....	284 73	11,300 37	75 00
171 07	13 50	56 58	.....	577 51	13,089 38	318 00
336 08	.....	16 19	8 00	571 31	15,252 74	100 64
115 94	.....	36 67	110 75	218 75	12,746 51	54,970 36
138 14	.....	21 17	496 59	144 62	12,079 88	52 70
226 86	1 87	11 09	47 04	309 90	10,631 02	225 00
124 03	.....	.....	27 72	122 47	12,339 73	790 84
149 96	.....	17 72	23 00	29 13	10,574 16	172 75
2,053 40	\$ 48 19	\$ 649 52	\$ 1,099 06	\$ 2,612 28	\$148,426 60	\$151,150 48

FIRE DEPARTMENT FUND.		
Disbursements.....	\$148,426 60	.....
Receipts.....	.....	\$151,150 48
Balance December 31, 1880.....	2,723 88	.....
	\$151,150 48	\$151,150 48



HOSE AT THE DIFFERENT ENGINE HOUSES.

ENGINE HOUSE NO. 1.

Name of Manufacturer.	Kind.	No. Feet.	When Put in Service.
B. F. Goodrich & Co., White Anchor... ..	Rubber	700	June 1880

ENGINE HOUSE NO. 2.

Name of Manufacturers.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield... ..	Rubber.	50	June 1873
" " " " "	"	100	" 1879
" " " " "	"	50	Jan. 1880
" " " " "	"	1050	June 1880
Gutta Percha Co., Carbolized.....	"	150	.....
Trenton Co., Improved Process.....	"	150	.....
		1550	

HOSE AT THE DIFFERENT ENGINE HOUSES.

Continued.

ENGINE HOUSE NO. 3.

Name of Manufacturers.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield.	Rubber.	150	May 1877
" " " " "	"	600	Jun. 1880
		750	

ENGINE HOUSE NO. 4.

Names of Manufacturers.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield.	Rubber.	300	Jan. 1880
" " " " "	"	200	Aug. 1880
H. F. Goodrich & Co., White Anchor.....	"	200	Sept. 1876
" " " " "	"	300	Aug. 1880
Gutta Percha Co., Unique.....	Linen.	150	May 1878
Eureka Hose Co., Eureka.....	Cotton.	100	Sept. 1876
American Jacket Hose Co.....	"	50	Dec. 1878
		1800	

HOSE AT THE DIFFERENT ENGINE HOUSES.

Continued.

ENGINE HOUSE NO. 5.

Names of Manufacturers.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield.. .. .	Rubber.	100	April 1878
" " " " "	"	400	June 1879
" " " " "	"	100	Jan. 1880
B. F. Goodrich & Co., White Anchor.....	"	150	Oct. 1877
		670	

ENGINE HOUSE NO. 6.

Names of Manufacturers.	Kind.	No. Feet.	When Put in Service.
Gutta Percha Co., Carbolized	Rubber.	700	April 1877
Cleveland Rubber Co. White Shield.....	"	100	Nov. 1879
" " " " "	"	50	Jan. 1880
" " " " "	"	150	May 1880
		1000	

HOSE AT THE DIFFERENT ENGINE HOUSES.

Continued.

ENGINE HOUSE NO. 7.

Names of Manufacturers.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield	Rubber.	100	Dec. 1878
" " " " "	"	250	Nov. 1879
" " " " "	"	400	May 1880
Gutta Percha Co., Carbolized.....	"	100	May 1877
Trenton, Improved Process.....	"	300	Aug. 1887
Gutta Percha, Unique.....	Linen.	100	April 1878
Blake Hose Co., Peerless	Cotton.	50	May 1878
		1300	

ENGINE NO. 8.

Names of Manufacturers.	Kind.	No. Feet	When Put in Service.
Cleveland Rubber Co., White Shield.....	Rubber.	100	Jan. 1879
" " " " "	"	250	Nov. 1879
" " " " "	"	100	Dec. 1879
" " " " "	"	450	Jan. 1880
" " " " "	"	250	May 1880
Gutta Percha Co., Carbolized.....	"	50	May 1877
		1200	

HOSE AT THE DIFFERENT ENGINE HOUSES.

Continued.

ENGINE HOUSE NO. 9.

Manufacturers Name.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield	Rubber.	350	April 1877
" " " " "	"	250	Dec. 1878
" " " " "	"	150	June 1879
" " " " "	"	400	June 1880
Trenton, Improved Process	"	250	March 1879
		1400	

ENGINE HOUSE NO. 10.

Manufacturers Name.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield	Rubber.	350	March 1876
" " " " "	"	400	Dec. 1878
" " " " "	"	100	June 1880
Gutta Percha Co., Carbolized	"	400	Dec. 1879
" " " " "	"	100	Jan. 1877
" " " " "	"	200	Sept. 1878
" " " Unique	Linen.	150	May 1878
		1700	

HOSE AT THE DIFFERENT ENGINE HOUSES.

Continued.

ENGINE HOUSE NO. 11.

Manufacturers Name.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co , White Shield... ..	Rubber.	50	Oct. 1875
" " " " "	"	750	June 1879
Gutta Percha Co., Carbolized... ..	"	250	Nov. 1875
" " " " "	"	350	Jan. 1877
B. F. Goodrich & Co., White Anchor.....	"	100	July 1877
		1500	

ENGINE HOUSE NO. 12.

Manufacturers Name.	Kind.	No. Feet.	When Put in Service.
Cleveland Rubber Co., White Shield	Rubber.	50	Jan. 1877
" " " " "	"	50	March 1876
" " " " "	"	700	Jan. 1879
" " " " "	"	100	Nov. 1879
" " " " "	"	100	Feb. 1880
" " " " "	"	150	June 1880
Gutta Percha Co., Carbolized... ..	"	200	Jan. 1876
" " " " "	"	50	April 1876
" " " " "	"	50	Feb. 1877
B. F. Goodrich Co , White Anchor	"	50	Oct. 1877
		1500	

HOSE AT THE DIFFERENT ENGINE HOUSES.

Continued.

ENGINE HOUSE NO. 13.

Manufacturers Name.	Kind.	No. Feet.	When Put In Service.
Cleveland Rubber Co.	Rubber.	200	Dec. 1878
" " "	"	200	June 1879
" " "	"	550	June 1880
Gutta Percha Co., Carbolized	"	450	May 1877
		1400	

STORE ROOM.

Manufacturers Name.	Kind.	No. Feet.	When Put In Service
Cleveland Rubber Co., White Shield .. .	Rubber.	350	1878
" " " " "	"	150	Jan. 1879
" " " " "	"	300	June 1880
Gutta Percha Co., Carbolized. . .	"	100	1876
" " " " "	"	500	1877
Trenton, Improved Process... ..	"	500	1876
		1800	

STATEMENT OF ALARMS AND CAUSES IN 1880.

CAUSE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Defective Flues.....	4	5	3	2	1	2	2	3	2	3	5	3	35
Chimneys Burning out.....	4	1	3	1	1	1	1	1	1	1	1	1	10
Carelessness.....	6	6	3	3	11	4	5	4	11	9	7	11	80
Lamp Explosions.....	2	2	1	1	1	1	1	1	1	1	1	1	6
Leaky Oil Tanks.....	1	1	1	1	1	1	1	1	1	1	1	1	2
Burning Red Light.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Children Playing with Matches.....	1	1	1	1	1	1	1	1	1	1	1	1	8
Unknown.....	1	4	10	6	6	3	2	9	4	8	9	9	62
Sparks.....	1	3	13	4	5	5	4	7	6	5	2	2	56
Overheating.....	1	1	2	2	2	2	1	1	1	2	1	1	9
Incendiary.....	1	1	1	1	1	2	2	2	2	2	2	2	11
Ignition of Gas.....	1	1	1	1	1	1	1	1	1	1	1	1	6
Gasoline Stoves.....	1	2	2	2	2	2	2	7	2	1	1	1	19
Spontaneous Combustion.....	1	1	1	1	1	1	1	1	1	1	1	1	9
Accidents.....	1	1	1	1	1	1	1	1	1	1	1	1	4
False Alarms.....	1	1	1	1	1	1	1	1	1	1	1	1	4
Children Playing with Fire.....	1	1	1	1	1	1	1	1	1	1	1	1	3
Fire Works.....	1	1	1	1	1	1	1	1	1	1	1	1	2
Bursting Gas Pipe.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Lightning.....	1	1	1	1	1	1	1	1	1	1	1	1	2
Combustion of Lime.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Boiler Explosion.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Bursting of Blast Furnace.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Explosion.....	1	1	1	1	1	1	1	1	1	1	1	1	2
Stove Upset.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Total No. of Alarms.....	20	23	34	22	30	28	28	38	33	34	17	30	337

DISBURSEMENTS SINCE 1874.

	No. of Min. Men	No. of Firemen.	No. of Houses.	Disburse- ments.
1874	2	116	10	\$ 161,991 64
1875.....	54	98	11	170,976 59
1876.....		143	11	149,894 72
1877.....		143	13	156,019 12
1878 . . .		143	13	159,970 44
1879.....		142	13	151,792 99
1880.....		142	13	148,426 60
Total.....				\$1,099,072 10

SOME OF THE EXPENSES PAID IN 1880

1500 feet rubber hose of Cleveland Rubber Co. in January.....	\$1,425 00
1500 " " " " " " February.....	1,425 00
1500 " " " " " " June.....	1,425 00
1000 feet of rubber hose of Akron Hose Co. in July	930 00
1000 feet of rubber hose of Cleveland rubber Co. in July	950 00
500 " " " " " " August	475 00
Repairs on engine No. 1 by Silsby Manufacturing Co.....	1,582 80
Three relief valves.....	450 00
1 heater boiler	135 00
1 City map.....	300 00
14 horses.	2,260 00
Houses repaired and painting	3,443 55
Repairs on Truck No. 1 by Chas. Rauch.....	119 88
Repairs on Truck No. 2 by Chas. Rauch . . .	453 78
Repairs on Truck No. 4 by Chas. Rauch.....	372 68
New supply wagon by Chas. Rauch.	180 00
Repairs on engines by Thomas Manning	916 40

ESTIMATED VALUE OF FIRE DEPARTMENT PROPERTY.

Estimated value of 18 engine houses and lots.....	\$205,000 00
“ “ 15 engines.....	54,000 00
“ “ 4 hook and ladder trucks, equipped	8,500 00
“ “ 1 aerial ladder.....	1,000 00
“ “ 4 hose carriages, four wheeled.....	2,500 00
“ “ 18 hose carts.....	3,000 00
“ “ 11 heaters.....	1,100 00
“ “ 17 stoves	500 00
“ “ 1 patrol wagon.....	150 00
“ “ 3 supply wagons.....	450 00
“ “ 3 fuel wagons.....	150 00
“ “ 1 telegraph wagon.....	150 00
“ “ 6 exercise wagons.....	900 00
“ “ 123 reservoirs	48,000 00
“ “ 70 horses.....	12,000 00
“ “ 18,000 feet of hose.....	17,000 00
“ “ 161 alarm boxes.....	20,000 00
“ “ 31 telegraph instruments.....	775 00
“ “ 200 cells grove batteries and stand.....	500 00
“ “ 224 Colland grove batteries and stand.....	336 00
“ “ 1 register \$50, galvanic meters \$15.....	65 00
“ “ 160 miles fire alarm line.....	8,000 00
“ “ 70 miles talking line	3,000 00
Switch boards, counters, etc.....	500 00
Miscellaneous articles.....	6,000 00
Total value of property estimated.....	\$394,176 00

Engine House No. 1 is located at the corner of St. Clair and Academy streets. The steamer is a first sized rotary built by Silsby Manufacturing Co., Seneca Falls, N. Y.; was placed in service in October 1868, and was known as Amos Townsend. It was repaired last spring and put in service again in July, 1880.

ENGINE CO. NO. 1.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
John Van Develde....	38	Engineer.	960	Jan. 1863	Holland.	Engineer.
Thomas Waters.....	34	Stoker.	744	Dec. 1870	United S.	Sailor.
Charles Werner	31	L. hoseman.	744	Sep. 1873	"	Trunk maker.
Thomas Porter.....	26	Fireman.	720	Oct. 1874	"	Clerk.
William Matthews....	32	"	720	May 1876	"	Sailor.
Nelson Fairchilds....	40	"	720	Oct. 1879	"	Paper hanger.
Patrick Finnican.....	27	"	720	July 1880	"	Moulder.
William Burgess.....	23	"	720	Jan. 1881	"	Plumber.

Engine House No. 2 is located on Champlain street. The steamer is second size Amoskeag, piston, placed in service January, 1872 ; was known as the "Chas. A. Otis."

ENGINE CO. NO. 2.

Names.	Age.	Positions	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
C. D. Murphy.....	44	Engineer.	960	Jan. 1873	Ireland.	Boiler maker.
Wm. F. Jones.....	44	Stoker.	744	May 1876	England.	Engineer.
J. McWilliams.....	33	L. hoseman.	744	Sep. 1870	United S.	Painter.
Henry Williams	39	Fireman.	720	Nov. 1872	"	Harness maker.
Wm. A. Culbertson..	31	"	720	Apr. 1872	"	Harness maker.
William Witt.....	28	"	720	June 1873	"	S. mach. maker.
Richard Gorman.....	28	"	720	Nov. 1879	Canada.	Nut & B. mak'r
A. H. Rowe.....	23	"	720	Jan. 1879	United S.	Upholsterer.

Engine House No. 3 is located on Huntington street, near Garden, and has a first size rotary steamer, built by the Silsby Manufacturing Co. Placed in service in November, 1871, and repaired by the same company, with new boiler, in 1879.

ENGINE CO. NO. 3.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Ira C. Benton	33	Engineer.	960	July 1875	United S.	Clerk.
Charles Riddle	30	Stoker.	744	Oct. 1873	"	R. R.
George Killip	30	L. hoseman.	744	Oct. 1874	"	Shoemaker.
Charles Hebbig	30	Fireman.	720	June 1875	"	Mason.
William Reynolds	34	"	720	" 1871	England.	Cooper.
William Crane	30	"	720	Jan. 1879	United S.	Salesman.
George Speddy	34	"	720	June 1878	"	Fireman.
George Messer	29	"	720	May 1877	"	Carpenter.

Engine House No. 4 is located at the corner of Church and State streets, and has a first size Silsby; placed in service March, 1873.

ENGINE CO. NO. 4.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
William Long	37	Engineer.	960	Apr. 1863 Jan. 1865 Aug. 1874	Ireland.	Shingle sawyer.
Sheldon Wright	30	Stoker.	744	May 1863	United S.	Salesman.
Charles Varner	27	L. hoseman	744	Feb. 1872	"	Sailor.
Edward Sewer	47	Fireman.	720	May 1869	Germany.	Baggage Master
Charles Anthony	36	"	720	Aug. 1871	United S.	Sailor.
John Andrew	35	"	720	May 1873	"	Sailor.
Frank Anthony	27	"	720	July 1873 July 1875	"	Trunk maker.
Nelson R. Saunders	27	"	720	Jan. 1878	"	Surveyor.

Engine House No. 5, is located on Phelps street and has a third size Latta engine, built by C. Ahrens & Co., and placed in service in May, 1877.

ENGINE CO. NO. 5.

Names.	Age.	Position.	Salary Per Year.	When Appointed.	Nativity.	Former Occupation.
William H. Clayton...	31	Engineer.	960	Dec. 1870	United S.	Engineer.
Henry H. Kurtz.	32	Stoker	744	Dec. 1876	"	Machinist.
Frederick P. Farrand	45	L. hoseman.	744	May 1876	"	Inspector.
George Eichhorn.....	40	Fireman.	720	Dec. 1868	Germany.	Plasterer.
Henry Tucker	29	"	720	Aug. 1872	United S.	Brakeman.
Frank Weber.	31	"	720	May 1876	Germany.	Machinist.
Charles Wolf.....	30	"	720	Oct. 1879	"	Blacksmith.
Erwin Reif.....	23	"	720	June 1880	United S.	Machinist.

Engine House No. 6 is located at the corner of Lorain and Brainard streets, and has a first size rotary engine, built by Silsby Manufacturing Co., and placed in service March, 1873, at Engine House No. 2, and afterwards transferred to Engine House No. 6. In October, 1879, it was precipitated into Cuyahoga river from Columbus street bridge, damaging it considerably. Repaired by Silsby Manufacturing Co.

ENGINE CO. NO. 6.

Names.	Age.	Position.	Salary Per Year.	When Appointed.	Nativity.	Former Occupation.
Oliver Hartzell.....	45	Engineer.	900	Sept 1867	United S.	Caulker.
Elmer S. Yocum.....	29	Stoker.	744	June 1872	"	Bricklayer.
Henry J. Delaney...	27	L. hoseman	744	May 1877	"	Gas fitter.
Peter McMahon	32	Fireman.	720	Apr. 1873	"	Harness maker.
John Schwartz.....	38	"	720	Mar. 1873	"	Teamster.
Joseph H. Thomas...	28	"	720	Dec. 1877	"	Clerk.
John M. Moffat.....	28	"	720	Dec. 1878	"	Pilot.
Charles Stearns. ...	30	"	720	Nov. 1880	"	Tinner.

Engine House No. 7 is located on Forrest street, near Garden, and has a second size rotary engine, built by Silsby Manufacturing Co., and placed in service in 1874 at Engine House No. 5, afterwards transferred to 7's house.

ENGINE CO. NO. 7.

Names.	Age.	Position.	Salary per Year.	When Appointed.	Nativity.	Former Occupation.
William Kortz.....	33	Engineer.	960	July 1860 Feb. 1874	Germany.	Harness maker.
Charles Schwind.....	34	Stoker.	744	Apr. 1870	United S.	Cooper.
Joseph Sharp.....	35	L. hoseman.	744	July 1873	England.	Laborer.
George Breuhler.....	42	Fireman.	720	Dec. 1868	Germany.	Teamster.
Maurice Price.....	34	"	720	Aug. 1872	England.	Laborer.
Jacob Koehl.....	47	"	720	Dec. 1868	Germany.	Laborer.
Charles B. Knapp....	32	"	720	May 1876	England.	Laborer.
Frank Dewey.....	27	"	720	June 1877	United S.	Painter.

Engine House No. 8 is located on Scranton avenue and has a third size Latta engine, built by C. Ahrens Co., and placed in service in October, 1878.

ENGINE CO. NO. 8.

Names	Age.	Position.	Salary per Year.	When Appointed.	Nativity.	Former Occupation.
W. W. McMahon...	35	Engineer.	960	Sep. 1863	United S.	Pail turner.
S. B. Conklin.....	32	Stoker.	744	Jan. 1869	"	Sail maker.
Wm. Welsheimer....	29	L. hoseman.	744	July 1873	Germany.	Lithographer.
B. L. Miles.....	37	Fireman.	720	July 1873	United S.	Carpenter.
Otto Schuchardt....	35	"	720	Nov. 1871	Germany.	Blacksmith.
Albert H. Burger....	41	"	720	June 1873	"	Bookbinder.
Thomas D. Emsley...	27	"	720	Oct. 1877	United S.	Spinner.
Oscar W. Kirk.....	32	"	720	Jan. 1879	"	Finisher.

Engine House No. 9 is located on Willson avenue. The steamer is of the Amoskeag pattern, and built by the Manchester Locomotive Works for \$3,600, it being second size. It was placed in service in November, 1879.

ENGINE CO. NO. 9.

Names.	Age.	Position.	Salary Per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Frank I. Mears.	35	Engineer.	960	Sept. 1870	United S.	Fireman.
Andrew J. Scovell.	41	Stoker.	744	July 1872	"	Porter.
Nicholas Clancy.	24	L. hoseman.	744	May. 1876	"	Blacksmith.
William Herr.	39	Fireman.	720	July 1872	Germany.	Cigar maker.
Frank E. Davis.	42	"	720	Feb. 1873	United S.	Paver.
Frank S. Smith.	34	"	720	Jan. 1873	Canada.	Leather finisher
Jacob W. Rees.	20	"	720	July 1873	United S.	Wood carver.
Henry P. Boulton.	28	"	720	Jan. 1879	"	Carpenter.

Engine House No. 10 is located on Doan street, and has a second size rotary engine, built by Silsby Manufacturing Co., and placed in service in November, 1862. There is also a chemical engine, in store.

ENGINE CO. NO. 10.

Names.	Age.	Position.	Salary Per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Frank Hughes.	30	Engineer.	960	Aug. 1873	United S.	Machinist.
Henry Orland.	56	Stoker.	744	May 1869	England.	Baker.
George Davis ...	32	L. hoseman	744	Sept. 1873	United S	Painter.
John Ackley.	49	Fireman.	720	Jan. 1873	"	Laborer.
Andrew Brott.	29	"	720	Jan. 1873	"	Carpenter.
Walter Harris.	33	"	720	Oct. 1878	England.	Nurseryman.
Edgar Ostrander.	22	"	720	Dec. 1876	United S.	Druggist.
		"	720			

Engine House No. 11 is located on the corner of Sawyer and Home streets, and has a second size rotary engine, built by the Silsby Manufacturing Co., and exchanged, being placed in actual service in 1877.

ENGINE CO. NO. 11.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Phillip Walters	36	Engineer.	980	Nov. 1866	United S	Boiler maker.
William Fenny.....	28	Stoker.	744	Aug. 1870	"	Pilot
Rees D. Jones.....	30	L. hoseman.	744	May 1871	Wales.	Rougher.
William Dehaney..	31	Fireman.	720	Aug. 1873	Canada.	Painter.
William H. Kneal...	37	"	720	May 1877	United S.	Bridge builder.
John D. Lewis.....	47	"	720	May 1876	Wales.	Puddler.
John McNanie.....	36	"	720	June 1879	United S.	Heater helper.

Engine House No. 12 is located on Waverly avenue, near Lorain street, and has a third size rotary engine, built by Silsby Manufacturing Co., and placed in service May, 1877.

ENGINE CO. NO. 12.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Henry Van Develde.	33	Engineer.	980	Oct. 1873	Holland.	Machinist.
Henry Harmon, Sr...	49	Stoker.	744	Oct. 1862	Germany.	Teamster.
James Van Develde.	35	L. hoseman.	744	Oct. 1865	Holland.	Tinman.
Henry Harmon, Jr..	28	Fireman.	720	June 1879	United S.	Gas fitter.
William Hartzell.....	36	"	720	Oct. 1872	"	Carpenter.
Samuel Jacket	34	"	720	Oct. 1872	"	Teamster.
James Cunningham.	33	"	720	Oct. 1873	"	Sailor.
Jacob Bruehler.....	37	"	720	Sep. 1879	Germany.	Fireman.

Engine House No. 13 is located on Broadway, near Petrie street, and has a second size rotary engine, built by Silsby Manufacturing Co., and placed in service in September, 1867.

ENGINE CO. NO. 13.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Joseph W. Baker.....	43	Engineer.	960	May 1876	United S.	Machinist.
William H. Ney.....	30	Stoker.	744	June 1873	"	Roofer.
William H. Caddy....	33	L. hoseman.	744	May 1877	"	Oil treater.
William R. Howe....	27	Fireman.	720	Apr. 1880	"	Laborer.
Warren B. Knowles.	43	"	720	Jan. 1872	"	Harness maker.
Philip McCracken....	31	"	720	Jan. 1879	"	Watchmaker.
John Eldridge..	27	"	720	Dec. 1880	"	Painter.
John F. Aukens..	26	"	720	May 1876	"	Painter.

HOOK AND LADDER CO. NO. 1.

In Engine Room No. 1.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
George Wallace	32	Captain	960	June 1869	United S.	Brakeman.
Charles Dougherty..	32	Tillerman.	744	Nov. 1873	"	Sailor.
Charles T. Garrard..	38	Fireman.	720	June 1873	"	Farmer.
John Moxon	27	"	720	Oct. 1873	Canada.	Spring Fitter.
John McGloo.....	23	"	720	May 1876	United S.	Butcher.
Conrad Bender.....	31	"	720	Mar. 1875	Germany.	Shoemaker.
James Quarrie.....	27	"	720	May 1876	Isle of Man	Butcher.
Thomas Broderick...	26	"	720	July 1876	Canada.	Butcher.
David Ward	27	"	720	Oct. 1873	England.	Teamster.

HOOK AND LADDER CO. NO. 2

In Engine House No. 4.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
John T. Gillson	40	Captain.	900	Sep. 1865	England.	Carriage Paint'r
Charles Fogg	38	Tillerman.	744	Apr. 1872	United S.	Morocco Dress'r
Michael Mulcahey	38	Fireman.	720	May 1875	Ireland.	Carpenter
Sanford Stephens	37	"	720	Aug. 1875	United S.	Caulker
Carlos E. White	30	"	720	Aug. 1873	"	Clerk.
Walter Chapman.	28	"	720	Aug. 1875	"	Brakeman
William H. Newton	30	"	720	Oct. 1879	"	Potter.

HOOK AND LADDER CO. NO. 3.

In Engine House No. 9.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
John P. Belz	31	Captain.	900	Dec. 1871	United S.	Harness maker.
Albert Stephens	34	Tillerman.	744	May 1870	England	Printer
Nathan Larue	47	Fireman.	720	Feb. 1875	United S.	Carpenter.
George Hemerich	30	"	720	Aug. 1875	"	Salesman.
Frederick Stockey	25	"	720	May 1876	Austria	Cigar maker.
John Waterbury.	29	"	720	May 1876	United S.	Painter.
Wm. H. Capener	21	"	720	Dec. 1880	"	Liveryman.

HOOK AND LADDER CO. NO. 4.

In Engine House No. 11.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
A. A. Cavanah.....		Captain.	900			
John Steel.....	44	Tillerman.	744	Dec. 1876	United S.	Engineer.
Charles Sumner.....	41	Fireman.	720	May 1876	"	Bricklayer.
John MacFeeters.....	38	"	720	May 1866	"	Moulder.
John M. Marsh.....	42	"	720	May 1876	English.	Printer.

TELEGRAPHIC DEPARTMENT.

OFFICE, BATTERY, SWITCH BOARDS, ETC., IN CITY HALL.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pations.
H. H. Rebbeck.....	41	Sup't.	P'd as A. Ch'f	May 1863	England.	Blacksmith.
George E. Bennett....	24	Operator.	720	Apr. 1872	United S.	Draughtsman.
Joseph Rothgery.....	36	"	720	Oct. 1871	"	Porter.
John D. Barlow.....	33	"	720	Dec. 1872	"	Farmer.
Morris Hawley	32	line repairer	720	May 1875 1876	"	Sail maker.

MISCELLANEOUS EMPLOYES.

Names.	Age.	Position.	Salary per Year.	When Ap- pointed.	Nativity.	Former Occu- pation.
Perry H. Auxer.....	30	Harn's mk'r	720	May 1877	United S.	Harness maker
Charles A. Kyle.....	23	Sup'ly driv'r	720	July 1880	England.	Painter.
Clarence S. Beverlin.	30	"	720	Apr 1880	United S.	Horse Farrier.
Lyman Waterbury...	25	"	720	June 1879	"	Plumber.

At a meeting of the Board. December 31st, 1880, H. H. Rebbeck was promoted to 1st Assistant Chief, in place of James Dickinson, promoted to Chief. Joseph Speddy, at the same meeting, was promoted to 2nd Assistant Chief in place of Rebbeck, promoted.

A. A. Cavanah, Capt. of H. & L. Co. 4, was promoted to 3rd Assistant Chief in place of Speddy, promoted, and Albert Stevens, Tillerman, of H. & L. Co. 3, was appointed Captain of H. & L. Co. 4, in place of Cavanah, promoted.

Officers at the commencement of 1881, as follows :

JAMES W. DICKINSON, Chief.

H. H. ROBBECK, 1st Ass't Chief and Supt. Telegraph.

JOSEPH SPEDDY, 2nd Ass't Chief.

A. A. CAVANAH, 3rd Ass't Chief.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Andrew, John.....	Fireman.	Engine 4.	May 1873.	American.	Sailor.
Anthony, Charles.....	"	" 4.	August 1871.	"	Sailor.
Anthony, Frank.....	"	" 4.	July 1875.	"	Trunk maker.
Ackley, John.....	"	" 10.	January 1873.	"	Laborer.
Ankens, John F.....	"	" 13.	May 1876.	"	Painter.
Auxer, Perry H.....	Harness Maker.	" 1.	May 1877.	"	Harness maker.
Burgess, William.....	Fireman.	" 1.	January 1881.	"	Plumber.
Benton, Ira C.....	Engineer.	" 3.	July 1875.	"	Clerk.
Bruehler, George.....	Fireman.	" 7.	December 1868.	German.	Teamster.
Burger, Albert H.....	"	" 8.	June 1873.	"	Book-binder.
Boulton, Henry P.....	"	" 9.	January 1879.	American.	Carpenter.
Brott, Andrew.....	"	" 10.	January 1873.	"	Carpenter.
Bruehler, Jacob.....	"	" 12.	Septemb'r 1879.	German.	Fireman.
Baker, Joseph W.....	Engineer.	" 13.	May 1876.	American.	Machinist.
Bonder, Conrad.....	Fireman.	H. & L. 1.	March 1875.	German.	Shoemaker.
Broderick, Thomas.....	"	" 1.	July	American.	Butcher.

ALPHABETIC LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Hartzell, Oliver	Engineer.	H. & L. 6.	September 1876.	American.	Caulker.
Herr, William	Fireman.	" 9.	July 1872.	German.	Cigar maker.
Hughes, Frank	Engineer.	" 10.	August 1873.	American.	Machinist.
Harris, Walter	Fireman.	" 10.	October 1878.	English.	Nurseryman.
Harmon, Henry, Sr.	Stoker.	" 12.	October 1873.	German.	Machinist.
Harmon, Henry, Jr.	Fireman.	" 12.	June 1879.	American.	Gas fitter.
Hartzell, William	"	" 12.	October 1872.	"	Carpenter.
Howe, Wm. R.	"	" 13.	April 1880.	"	Laborer.
Hemerich, George	"	H. & L. 3.	August 1875.	"	Salesman.
Hawley, Morris	Lineman.	Telegraph.	May 1875.	"	Sail maker.
Jones, Wm. F.	Stoker.	Engine 2.	May 1876.	English.	Engineer.
Jones, Rees D.	L. Hoseman.	" 11.	May 1876.	Welsh.	Rougher.
Jackett, Samuel	Fireman.	" 12.	October 1872.	American.	Teamster.
Killip, George	L. hoseman.	" 3.	October 1874.	"	Shoemaker.
Kurtz, Henry H.	Stoker.	" 5.	December 1876.	"	Machinist.
Kortz, William	Engineer.	" 7.	July 1876.	German.	Harness maker.

ALPHABETICAL LIST OF FIRE DEPARTMENT FORCE—Continued.

Names	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Koehl, Jacob	Fireman.	Engine 7.	December 1868.	German.	Laborer.
Knapp, Chas. B.	"	" 7.	May 1873	English.	"
Kirk, Oscar W.	"	" 8.	January 1873.	American.	Finisher.
Kneal, William H.	"	" 11.	May 1877.	"	Bridge builder.
Knowles, Warren B.	"	" 13	January 1872.	"	Harness maker.
Kyle, Charles A	Supply driver.	" 1.	July 1880.	English.	Painter.
Long, William	Engineer.	" 4.	April 1863.	Irish.	Shingle Sawyer.
Lewis, John D.	Fireman.	" 11.	May 1876.	Welsh.	Puddler.
Laroe, Nathan	"	H. & L. 3.	February 1875.	American.	Carpenter.
Matthews, William	"	Engine 1.	May 1876.	"	Sailor.
Murphy, Cornelius D.	Engineer.	" 2.	January 1873.	Irish.	Boiler maker.
Messer, George	Fireman.	" 3.	May 1877.	American.	Carpenter.
McWilliams, John.	L. hoseman.	" 2.	September 1870.	"	Painter.
McMahon, Peter	Fireman.	" 6.	April 1873.	"	Harness maker.
Moffatt, John M.	"	" 6.	December 1873.	"	Pilot.
McMahon, W. W.	Engineer.	" 8.	September 1883.	"	Pail turner.

ALPHABETICAL LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Miles, B. L.	Fireman.	Engine 8.	July, 1873.	American.	Carpenter.
Mears, Frank I.	Engineer	" 9.	September 1870.	"	Fireman.
McNanie, John.	Fireman.	" 11.	January, 1879.	"	Heater Helper.
McCracken, Philip.	"	" 13.	January 1879.	"	Watch maker
McGlool, John	"	H. & L. 1.	May 1876.	"	Butcher.
Moxon, John	"	" 1.	October 1873.	"	Spring filter.
Mulcahey, Michael	"	" 2.	May 1875.	Irish.	Carpenter.
MacFeeters, John.	"	" 4.	May 1876.	American.	Moulder.
Marsh, John.	"	" 4.	May 1879.	English.	Painter.
Ney, William H.	Stoker.	Engine 13.	June 1873.	American.	Roofer.
Newton, William H	Fireman.	H. & L. 2.	October 1879.	"	Potter.
Orland, Henry.	Stoker.	Engine 10.	May 1868.	English.	Baker.
Ostrander, Edgar.	Fireman.	" 10.	December 1876.	American.	Druggist.
Porter, Thomas	"	" 1.	October 1874.	"	Clerk.
Price, Maurice.	"	" 7.	August 1872.	English.	Butcher.
Quarrie, James.	"	H. & L. 1.	May 1876.	Manx.	"

ALPHABETICAL LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Howe, A. H.	Fireman.	Engine 2.	January 1879.	American.	Upholsterer.
Riddles, Charles.	Stoker.	" 3.	October 1874.	"	R. R.
Reynolds, William.	Fireman.	" 3.	January 1871.	English.	Cooper.
Reif, Erwin.	"	" 5.	January 1880.	American.	Machinist.
Rees, Jacob W.	"	" 9.	July 1873.	"	Wood carter.
Rothgry, Joseph.	Operator.	Telegraph.	October 1871.	"	Porter.
Speddy, George.	Fireman.	Engine 3.	June 1878.	"	Fireman.
Sewer, Edward.	"	" 4.	May 1889.	German.	Baggage master.
Saunders, Nelson R.	"	" 4.	January 1878.	American.	Surveyor.
Schwartz, John.	"	" 6.	March 1873.	"	Teamster.
Stearns, Charles.	"	" 6.	November 1880.	"	Tinner.
Schwind, Charles.	Stoker.	" 7.	April 1870.	"	Cooper.
Sharp, Joseph.	L. hoseman.	" 7.	July 1873.	English.	Laborer.
Schuchardt, Otto.	Fireman.	" 8.	November 1871.	German.	Blacksmith.
Scovell, Andrew J.	Stoker.	" 9.	July 1872.	American.	Porter.
Smith, Frank S.	Fireman.	" 9.	January 1873.	"	Leather finisher.

ALPHABETICAL LIST OF FIRE DEPARTMENT FORCE—Continued.

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Stephens, Sanford.....	Fireman.	H. & L. 2.	August 1875.	American.	Caulker.
Stevens, Albert.....	Tillerman.	" 3.	May 1870.	English.	Printer.
Stockey, Frederick.....	Fireman.	" 3.	May 1876.	Austria.	Cigar maker.
Steel, John.....	Tillerman.	" 4.	December 1876.	American.	Engineer.
Sumner, Charles.....	Fireman.	" 4.	May 1876.	"	Brick layer.
Tucker, Henry.....	"	" 5.	August 1872.	"	Clerk.
Thomas, Joseph H.....	"	" 6.	January 1880.	German.	Engineer.
Van Develde, John.....	Engineer.	Engine 1.	January 1880.	Hollander.	Engineer.
Varnier, Charles.....	L. hoseman.	" 4.	February 1872.	American.	Sailor.
Van Develde, Henry.....	Engineer.	" 12.	October 1873.	Hollander.	Machinist.
Van Develde, James.....	L. hoseman.	" 12.	October 1865.	"	Fireman.
Waters, Thomas.....	Stoker.	" 1.	December 1870.	American.	Sailor.
Werner, Charles.....	L. hoseman.	" 1.	September 1873.	"	Trunk maker.
Williams, Henry.....	Fireman.	" 2.	November 1875.	"	Harness maker.
Witt, William.....	"	" 2.	June 1873.	"	Sewing machine maker
Wright, Sheldon.....	Stoker.	" 4.	May 1866.	"	Salesman.

ALPHABETICAL LIST OF FIRE DEPARTMENT FORCE—(Continued.)

Names.	Position.	To What Co. Attached.	When Appointed.	Nativity.	Former Occupation.
Weber, Frank.....	Fireman.	Engine 5.	May 1876.	German.	Machinist.
Wolf, Chas	"	" 5.	October 1870.	"	Blacksmith.
Weishelmer, Wm	L. hoseman.	" 8.	July 1873.	"	Lithographer.
Walters, Philip	Engineer.	" 11.	November 1888.	American.	Roller maker.
Wallace, George.....	Captain.	H. & L. 1.	June 1869.	"	Brakeman.
Ward, David.....	Fireman	" 1.	October 1873.	English.	Teamster.
White, Carlos E.....	"	" 2.	August, 1873.	American.	Clerk.
Waterbury, John.....	"	" 3.	May 1876	"	Painter.
Waterbury, Lyman.....	Supply.	Engine 7.	June 1879.	"	Plumber.
Yocum, Elmer S.....	Stoker.	" 6.	June 1872.	"	Bricklayer.

NO. OF MEN WHO HAVE RESIGNED DURING THE YEAR 1880.

Names.	Position.	From What Co.	Time.
George H. Lamb.....	Fireman.	H. & L. 2.	Februa'y 20, 1880
S. C. Higgins.....	"	Engine 13	March 4, 1880.
D. E. Hollister.....	"	H. & L. 4.	Decemb'r 1, 1880

MEN DISCHARGED DURING THE YEAR 1880.

Name.	Position.	From What Co.	Time of Discharge.
Charles Hamlin	Fireman.	Engine 3.	May 21, 1880.
John T. Blauvelt... ..	Harness maker.	.....	May 21, 1880.
Wm. H. Johnson	Fireman.	" 5.	July 7, 1880.
Michael McArdle.	"	" 6.	Sept. 1, 1880.
John A. Bennett.....	Chief.	.....	Dec 22, 1880.

Sammuel Lemmon and Henry Hart, members of Engine Co. No. 10, have been unable to do duty on account of sickness.

*Wm. A. Culbertson, of Engine Co. No. 2, is very sick, and will probably die before this report is ordered printed.

None of the men have been seriously injured during the year, and we are pleased to record that no deaths have occurred in the department during the year.

*Culbertson died February 17, 1881.

FIRE ALARM TELEGRAPH.

(OFFICE OF THE FIRE ALARM TELEGRAPH.)
CLEVELAND, DEC. 31st, 1880. }

To the Honorable Board of Fire Commissioners :

GENTLEMEN :—In accordance with the rules and regulations of the Fire Department, I have the honor to submit my annual report in detail for the Telegraph branch of the department, with suggestions for your future consideration, for the year ending December 31st, 1880.

The lines and instruments have worked well during the year. No additional fire alarm boxes have been put up during the year, although several have been ordered and will be placed in the line as soon as practicable.

I suggested in my last report, that the fire alarm office, apparatus, instruments, battery, etc., be removed to suitable rooms in the City Hall, and that telephones be used by the different departments. In accordance with the suggestion, you thought the plan advisable, and ordered the change made. Telephones have been put in use and connections made with all the engine houses, four of the Commissioners' residences, two of the Officers' residences, with the fire alarm office in City Hall, and known as the "City Hall Exchange ;" also the Mayor's office, all of the police stations, four of the Police Commissioner's residences or places of business, the Infirmary office on Superior street and the Infirmary building on Scranton avenue, the Workhouse and the Water Works office, making in all forty-one, besides two lines to the Cleveland Exchange, affording means for the city officials to do business with the public at

great convenience, also giving the police and fire departments great advantages in transacting business. The cost of construction has been paid by the different departments benefited, and the labor has been performed by members of the fire department, to whom much credit is due for the skilful manner in which the work was performed.

I would suggest the propriety of placing a large bell on top of the City Hall building, to be struck automatically from the fire alarm office, as it is very difficult for people in the business portion of the city to hear the alarm from either of the bells on the engine houses, and if the companies respond to the alarm, no one is left to ring the bells, therefore at times when officers are making tours of inspection, as required by the rules, by not hearing an alarm, they might miss responding when their services would be greatly needed.

The police lines continue to give satisfaction and work well. The number of messages sent over the wires of both telegraph and telephone lines during the year was 4786, and the number received was 1567, making 5253 messages which are recorded for future reference. A larger number has been sent and received and no record kept.

The annexed tables will show the number of alarms given for each hour of the day, each day of the week, day of the month, the number of alarms from each box, and the location of all the boxes or stations.

Respectfully submitted by,

H. H. REBBECK,

Sup't of Fire Alarm Telegraph.

TABLE NO. 1,
SHOWING THE NUMBER OF ALARMS FOR EACH HOUR OF THE DAY.

1890.	FORENOON.												AFTERNOON.												Total Afternoon	Total.
	Total Morning												Total Afternoon													
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		
January	1	2	1	1	1	1	1	1	2	1	1	1	8	1	1	1	1	1	1	2	4	1	3	14	22	
February ..	2	1	1	1	1	1	1	1	1	4	2	1	9	2	2	1	1	2	4	3	2	2	1	19	28	
March.....	2	1	1	1	2	3	5	1	2	1	1	1	17	2	2	2	3	2	1	1	2	1	3	2	19	36
April.....	1	1	1	1	2	2	2	1	1	1	1	1	7	3	4	1	2	2	1	1	1	1	1	15	22	
May.....	2	3	1	1	1	1	1	2	2	3	2	1	16	1	4	1	1	3	1	1	4	1	1	17	33	
June.....	1	1	1	1	1	2	2	2	1	3	2	1	12	2	2	7	4	1	2	2	1	2	1	22	34	
July.....	1	1	1	1	1	1	1	1	1	4	1	1	9	5	1	1	2	2	2	5	1	2	2	21	30	
August.....	5	1	1	1	3	2	2	2	6	3	2	2	26	1	3	2	2	1	1	1	1	1	2	14	40	
September..	1	1	2	1	1	1	3	1	1	1	1	1	10	2	2	3	2	2	4	3	2	1	2	23	33	
October ..	1	2	1	3	3	1	2	1	2	1	1	1	16	2	1	1	2	2	1	1	1	1	1	12	28	
November ..	1	1	1	1	1	1	2	2	3	3	1	1	12	3	2	1	2	1	1	5	1	1	1	16	28	
December ..	2	1	2	1	1	1	1	1	1	1	1	2	14	1	1	1	3	3	2	3	4	1	1	21	35	
Total	11	10	11	11	6	12	15	16	10	17	25	12	153	17	23	11	20	23	18	24	23	18	15	11	213	599

TABLE NO. 2.
SHOWING THE NUMBER OF ALARMS FOR EACH DAY OF THE WEEK.

1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday	1	1	2	1	3	4	5	3	1	3	.....	2	26
Monday .....	.....	7	5	5	6	7	5	8	6	4	5	4	62
Tuesday	2	4	6	5	1	5	2	7	4	4	5	2	47
Wednesday	5	2	4	2	8	3	3	3	3	7	5	7	52
Thursday	5	3	1	2	7	6	2	9	11	5	4	5	60
Friday	4	8	8	3	2	2	8	6	2	.....	6	12	61
Saturday	5	3	10	4	6	7	5	4	6	5	3	3	61
Total	22	26	36	22	33	34	30	40	33	28	24	35	380

TABLE NO. 3,
SHOWING THE NUMBER OF ALARMS FROM EACH BOX.

Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.
2	3	24	6	46		69	2	95	1	142	6	212	6	312	...	346	1
3	2	25	12	47	1	71		96	2	143	1	213	4	313	...	347	...
4	16	26	3	48	...	72	1	121	1	145	2	214	...	314	1	421	4
5	5	27	2	49	...	73	1	123	4	146	1	215	2	315	...	423	2
6	...	28	7	51	2	74	2	124	11	147	...	216	2	316	4	424	...
7	...	29	2	52	3	75	...	125	5	148	1	217	3	317	...	425	2
8	7	31	3	53	1	76	2	126	6	149	1	218	...	318	...	426	1
9	5	32	5	54	3	81	...	127	5	151	1	232	2	319	...	427	5
10	4	34	2	56	5	82	1	128	...	152	...	234	7	321	1	431	...
12	6	35	5	57	3	83	...	129	2	153	2	235	...	...	...	432	...
13	3	36	2	58	2	84	1	131	...	154	4	236	...	323	1	434	5
14	3	37	2	61	1	85	5	132	14	156	1	237	3	325	2	435	1
15	4	38	2	62	12	86	3	134	3	162	...	241	1	326	...	...	...
16	1	39	...	63	...	87	...	135	10	163	1	242	2	327	2	...	...
18	2	41	2	64	2	91	1	136	...	164	4	243	2	341	1	...	...
19	2	42	5	65	2	92	...	137	2	165	3	245	...	342	4	...	...
21	6	43	6	67	1	93	1	138	...	172	2	246	5	343	...	...	...
23	...	45	2	68	1	94	4	139	...	173	1	252	1	345	...	...	...

NUMBER AND LOCATION OF ALARM STATIONS.

2. City Hall building.
3. Corner of Ontario and Lake streets.
4. At Engine House No. 1, cor. St. Clair and Academy sts.
5. Corner of Water and St. Clair streets.
5. Corner of Water and Lake streets.
6. Union passenger depot.
6. Corner of Spring and Front streets.
7. At the C. & P. freight house.
8. Corner of River and Lighthouse streets.
9. Corner of River and St. Clair streets.
10. Corner of River and Superior streets.
12. Corner of Columbus and Voltaire streets.
12. Corner of Columbus and Centre streets.
12. Corner of Merwin and British streets.
13. No. 13 Carter street, near rolling mill.
14. No. 30 Canal street, on White's Sewing Machine factory.
15. Corner of Superior and Water streets.
16. Corner of Superior and Bank streets.
18. Corner of Superior and Seneca streets.
19. At central police station on Champlain streets.
19. At engine house No. 2 on Champlain street.
21. Corner of Euclid avenue and Sheriff streets.
23. Corner of Scranton avenue and Carter streets.
24. Corner of Central-way and Ohio streets.
25. At central market house.
26. Corner of Erie and Eagle streets.

27. Corner of Erie and Prospect streets.
28. Corner of Erie and St. Clair streets.
29. Corner of Walnut and Muirson streets.
31. Corner of Commercial and Canal streets.
32. On Hill street, between Commercial and Cross streets.
34. At the junction of Woodland avenue and Erie streets.
35. At engine house No. 3 on Huntington street.
36. On Perry street, near Prospect.
37. Corner of Perry street and Scovill avenue.
38. Corner of Perry street and Broadway.
39. Corner of Woodland avenue and Harmon street.
41. On Scranton avenue, near A. & G. W. depot.
42. At railway crossing, foot of Willey street.
43. At railway crossing, foot of Mill street.
45. Police station on Barber avenue.
46. Corner of Vega avenue and Hitchcock street.
47. Corner of Mill and Seymour streets.
48. Corner of Scranton avenue and Rowley street.
49. On Scranton avenue at the City Infirmary.
51. At engine house No. 8 on Scranton avenue.
52. Corner of Literary and Professor streets.
53. Corner of Jennings avenue and Fairfield street.
54. Corner of Starkweather and Merchant avenue.
56. Corner of Central way and Mahoning street.
57. Corner of Central way and Railway streets.
58. Corner of University and Jefferson streets.
61. Junction of Broadway and Irving street.
62. Standard oil refinery on Broadway:
62. " " " "
63. Standard oil refinery cooper shop on Broadway.
64. Corner of Independence and Holly streets.
65. Corner of Broadway and Forest streets.
67. Corner of Dille and Warren sts.
68. At engine house No. 13 on Broadway.
69. Junction of Willson avenue and A. & G. W. R'y.
71. On Garden st., between Perry and Greenwood streets.

72. Corner of Scovill avenue and Henry street.
73. Corner of Woodland avenue and Irving street.
74. Corner of Broadway extension and Jackson street.
75. Corner of Croton and Forest streets.
76. On Forest street, near paper mill.
81. Corner of Scovill avenue and maple street.
82. Police station on Forest street.
83. Corner of Woodland and Case avenues.
84. Corner of Scovill avenue and Kennard street.
85. At engine house No. 9, on Willson avenue.
86. Corner of Herald and Grand avenues.
87. Corner of Kinsman street and Madison ave.
91. Corner of Sterling avenue and Garden street.
92. Corner Sterling avenue and Prospect street.
83. Corner of Cedar avenue and Blair street.
94. At engine house No. 7, on Forest street.
95. Corner of Prospect street and Case avenue.
96. Corner Euclid and Willson avenues.
96. At the Brush Electric Works.
121. On Whisky Island.
123. Corner of Centre and Hemlock streets.
124. Corner of Main and Sycamore streets.
125. Corner of Centre and Winslow streets.
126. Corner of Main and Washington streets
127. At police station on Detroit street.
128. On West River street. between Detroit and Columbus sts.
129. Corner of Lorain and Brock streets.
131. At the oil refinery foot of Abbey street.
132. At engine house No. 6 corner of Lorain and Brainard sts
134. Corner of Pearl street and Franklin avenue.
135. At engine house No. 4, corner of Church and State sts.
136. Corner of Franklin avenue and Kentucky streets.
137. Corner of Bridge and Fulton streets.
138. Corner of York and Jay streets.
139. Corner of Jersey and Chatham streets.
142. Corner of Detroit and Taylor streets.

143. Corner of Harbor and Woodbine streets.
145. Corner of Lorain and Randall streets.
146. Corner of Chatham and Willett streets.
147. Corner of Bailey and Devine streets.
148. Corner of Burton and Buckley streets.
149. Corner of Harbor and Cook streets.
151. Corner of Herman and Weddell streets.
152. Corner of Washington and St. Paul streets.
153. Corner of Franklin avenue and Dare street.
154. Corner of Lorain and Liberty streets.
156. Corner of Junction and Ravine streets.
162. Corner of Detroit street and Waverly avenue.
163. Corner of Bridge and Cortland streets.
164. At Engine House No. 12, on Waverly avenue.
165. Corner of Lorain and Chestnut Ridge streets.
172. Corner of Clark avenue and Pleasant street.
173. Corner of Clark avenue and Bergen street.
212. Corner of Canfield and Davenport street.
213. Corner of Lake and Dodge streets.
214. Corner of Euclid avenue and Dodge streets.
215. Corner of St. Clair and Ross streets.
216. At Police Station corner Oregon and Oliver streets.
217. Corner of St. Clair and Alabama streets.
218. At Lake Shore Machine Shops.
232. At Pittsburgh Machine Shops.
234. At Engine House No. 5 on Phelps street, near St. Clair.
235. Corner of Payne and Sterling avenues.
236. Corner of Payne avenue and Buckeye street.
237. Corner of Payne and Case avenues.
241. Corner of Payne and Willson avenues.
242. Corner of Superior street and Case avenue.
243. Corner of Lake and Wason streets.
245. Corner of St. Clair and Lyman streets.
245. Corner of St. Clair and Kirtland streets.
246. Corner of St. Clair street and Willson avenue.
252. Corner of Superior and Huntington streets.

- 312. Corner of Euclid and Dunham avenues.
- 313. Corner of Euclid and Giddings avenues.
- 314. Corner of Euclid and Madison avenues.
- 316. At Engine House No. 10 on Doane avenue.
- 217. Corner of Euclid avenue and Walter streets.
- 318. Corner of Hough and Ansel Avenues.
- 319. Corner of Hough avenue and Crawford street.
- 321. Corner of Scovill avenue and Slater street.
- 223. Corner of Woodland and Willcut avenues.
- 324. Corner of Platt and Carr streets.
- 325. At the Workhouse on Woodland avenue.
- 325. On Herschner street near Pittsburgh track.
- 326. Corner of Hough and Madison avenues.
- 327. Corner of Superior street and Madison avenue.
- 341. Corner of Garden street and Willson avenue.
- 342. Corner of Garden street and Junction of C. & P. R'y.
- 345. Corner of Cedar and Lincoln avenues.
- 346. Corner of Cedar avenue and Logan streets.
- 347. Corner of Cedar avenue and Fairmount street.
- 421. At engine house No. 11, on Sawyer avenue.
- 423. Corner of Broadway and Harvard street.
- 424. Corner of Mills and Atwater streets.
- 425. At Stone, Chisholms & Jones' Rolling Mills.
- 426. Corner of Union and Upton streets.
- 427. Corner of Woodland Hills avenue and Hull street.
- 431. At the Insane Asylum, eighteenth ward.
- 432. Junction of Harvard and Jones streets.
- 434. Corner of Broadway and Fullerton streets.
- 435. At the Wire Mills, eighteenth ward.

All former estimates certified to the City Auditor to be levied on the grand duplicate for the support of the department yearly have been so much reduced that it seems almost unnecessary for the Board to make estimates for expenses, as they are almost entirely ignored in fixing the tax levy.

The amount estimated for expenses for the year 1881, without an increase of companies, was \$161,300; with the increase of one company it was \$15,000 more.

This estimate being given, from it a levy was made, giving only \$147,294 38 for the Fire Department during the year of 1881. It will probably cost the balance on hand at the close of the year, \$2,723 83, to collect, leaving about \$147,000 to be used for 1881.

If the department is as fortunate as it was in 1880, this sum may carry it through, with no additional companies to be established as contemplated; and should any serious accidents occur (which are liable to at any time), whereby any amount of apparatus is destroyed, hose burned, horses killed, etc., etc., then the department must suffer, as, according to the law, there is no way of relief, and it may be necessary to close some of the houses!!!

There are quite a number of additional improvements required to make the department as efficient as the commission would like.

If the fund was sufficiently large to warrant the expenditures, the Board desires not only to gratify the request of the citizens in the Twelfth ward, giving to them a company, but to locate at least one chemical engine in the central portion of the city fully equipped for service.

There is probably no city, beside Cleveland, in the United States so poorly provided with chemical engines as this city.

The city of New York has nine chemical engines, with one to spare.

On the lot in rear of the City Hall there certainly should be a suitable building erected for a chemical engine, to be managed by four men, as such an enterprise might be the means of not only saving the City Hall, but a vast amount of property in the mercantile district.

ORDINANCES.

AN ORDINANCE

To establish fire limits in the city of Cleveland, and repealing certain parts of an ordinance in conflict therewith.

SECTION 1. *Be it ordained by the City Council of the City of Cleveland,* That no person or persons shall erect, or place any building, or any addition to any building, upon or within the territory hereinafter described, unless the outer walls thereof be made of brick and mortar, or of stone and mortar, or of iron backed by brick and stone and mortar, with lateral walls, at least ten inches above the roof, and the cornice to be made of brick, stone or iron, and the roof thereof to be covered with fire proof material : unless such person or persons shall first obtain the consent of the Board of Fire Commissioners, to whom a discretion is hereby given to grant permits for the erection of wooden buildings within said territory, where, in the opinion of said Board, it would not be detrimental to the interests of adjacent property owners, and which permit must be in writing and issued by the clerk of said Board ; such permit, shall be subject to the approval of the City Council.

SEC. 2. The said territory named in the foregoing section is bounded and described as follows : Beginning at the center of Erie street on the lake shore, thence following along the center of Erie street to Eagle street ; following thence along the center of Eagle street to the center of Canal street ; thence following along the center of Canal street to the center of Seneca street : thence along the center of Seneca street to the

center of Cuyahoga River ; thence along the middle of Cuyahoga River to Lake Erie ; thence along the shore of the lake to Erie street.

Also the following described territory on the west side of Cuyahoga River : Beginning at Chatham street, on Pearl street, and continuing northwest to the centre of Washington street, including one hundred feet on each side of the line of buildings ; thence along the center of Washington street to the New York, Pennsylvania & Ohio Railway track ; thence along the New York, Pennsylvania & Ohio Railway track to the Center of Willow street ; thence along the center of Willow street to the center of the old river bed ; thence along the center of the old river bed to the center of Cuyahoga River ; thence along the center of Cuyahoga River to Center street bridge ; thence to the southeast corner of Hanover and Vermont streets ; thence on the easterly line of Hanover street to Church street ; thence on the northerly line of Church street to Pearl street ; thence across Pearl street to Terrace street ; thence along the westerly line of Terrace street to Detroit street.

SEC. 3. Nothing in this ordinance contained shall be so construed as to prevent, upon said territory, the erection of sheds constructed of wood, not exceeding twelve feet square and twelve feet in height at the highest part of the roof, with the roof sloping one way only ; or outhouses not exceeding twelve feet square and twelve feet high at the peak of the highest part of the roof thereof.

SEC. 4. When the owner or occupant of any frame building, standing upon any portion of the territory embraced in any established fire limits, where the erection of wooden buildings is prohibited by ordinance of the city, shall desire to make any alteration thereof, or any addition thereto, either in height, length, or otherwise, shall first obtain the consent of the Board of Fire Commissioners, which consent must be in writing and

issued by the clerk of said Board ; and when so given such owner or such occupant, he shall not be subject to prosecution under the ordinance regulating this subject.

SEC. 5. Any person or persons violating this ordinance shall, upon conviction thereof, be fined for each and every offense not exceeding \$50, and \$50 per week for every week that said ordinance is thus violated.

SEC. 6. All ordinances or parts of ordinances in conflict with this ordinance (particularly the ordinance heretofore passed establishing fire limits within the city of Cleveland) be and the same are hereby repealed, so far as they do so conflict with this ordinance.

SEC. 7. This ordinance shall take effect and be in force from and after its passage and legal publication.

Passed June 28th, 1880.

GEORGE W. GARDNER,

President of the Council.

W. H. ECKMAN,

City Clerk.

AN ORDINANCE

To amend Section 1 of an ordinance entitled "an ordinance to establish fire limits in the city of Cleveland and repealing certain parts of an ordinance in conflict therewith, passed June 28th, 1880."

SECTION 1. *Be it enacted by the City Council of the City of Cleveland* (two-thirds of all the members concurring), That Section 1 of the above entitled ordinance be amended so as to read as follows. to-wit: No person or persons shall erect or place any building, or part of any building, upon or within the territory hereinafter described, unless the outer walls thereof be made of brick and mortar, or of stone and mortar, or of iron-

backed brick or stone and mortar, with lateral walls at least ten inches above the roof, and the cornice be made of brick, stone or iron, and the roof thereof be covered with fire-proof material.

Nor shall any person or persons place, or cause to be placed, any building, or any part of building, except of the character above described, upon any lot or parcel of land within said territory, unless such person or persons shall first obtain the consent of the Board of Fire Commissioners, to whom a discretion is hereby given to grant permits for the erection and location of wooden buildings within said territory where, in the opinion of said Board, it would not be detrimental to the interests of adjacent or contiguous property owners, and which permits must be in writing and issued by the clerk of said Board.

Such permits shall be subject to the approval of the City Council.

SEC. 2. That Section 1 of the above entitled ordinance, as passed June 28th, 1880, an ordinance entitled, "an ordinance to amend section 14, chapter 7, of the codified ordinances" passed April 9th, 1879, also section 14 of the codified ordinances be and they are hereby repealed.

SEC. 3. This ordinance shall be in force from its passage and legal publication.

Passed November 22d. 1880.

GEORGE W. GARDNER,
President of the Council.

W. H. ECKMAN,
City Clerk.

AN ORDINANCE

To guard against injuries by fire.

SECTION. *Be it ordained by the City Council of the City of Cleveland,* That two months after the passage of this ordinance it shall be unlawful for any individual, or company, or persons to build or occupy any building of more than one story in height, where such building is occupied, or to be occupied, by employes or tenants on the different floors above the first floor, counting the ground floor as the first floor or story, without providing a scuttle in the roof, with some suitable ladder or stairway leading thereto, and some suitable or efficient ladders, or other safe fire-escapes from the upper stories of such building, to be easily accessible to such employes or tenants in the case of fire; the means employed, or the device or plan of such fire escape to be subject to the approval of the Board of Fire Commissioners.

SEC. 2. Any person, or any individual member of a company, the owner of such building or the occupier thereof, employing persons to labor, or renting rooms or apartments therein, neglecting or refusing to comply with the provisions of this ordinance, shall be fined not less than fifty nor more than one hundred dollars for each month he or she fails to comply therewith; to be prosecuted in the Police Court for the use and benefit of the Fire Department.

SEC. 3. This ordinance shall be in force in two months from and after its passage.

GEORGE W. GARDNER,

President of the Council.

W. H. ECKMAN,

City Clerk.

AN ACT

To create a Board of Fire Commissioners and provide for the management of fire departments in cities having a population not less than ninety thousand inhabitants nor more than one hundred and fifty thousand inhabitants at the last Federal census, and to repeal an act therein named.

SECTION 1. *Be it enacted by the General Assembly of the State of Ohio*, That the management and control of Fire Departments in cities of the first-class having a population exceeding ninety thousand inhabitants and not exceeding one hundred and fifty thousand inhabitants at the last Federal census, shall be vested in a Board of Fire Commissioners, which shall consist of the chairman of the Committee on Fire and Water of the City Council and four resident freeholders in said cities, who at the first regular annual municipal election in said cities, after the passage of this act, shall be elected from the qualified electors in each of said cities. Said commissioners so elected shall hold office as follows: One for one year, one for two years, one for three years, and one for four years, each to hold respectively until their successors are elected and duly qualified.

That at each annual municipal election thereafter there shall be elected one member of said Board for the term of four years.

SEC. 2. That whenever any vacancy shall occur by death, resignation or otherwise than by expiration of term of office, it shall be the duty of the City Council to elect some suitable person to fill said vacancy.

SEC. 3. That said Board shall, upon its organization, and annually thereafter, elect one of its members as president of the Board, and also at the same time appoint some suitable person not a member of the Board, as secretary, who shall serve for the period of four years, and until a successor is elected. A majority of the members of said Board shall constitute a

quorum for the transaction of business, but no election of officers or appointment of men shall be valid unless approved by a majority of all the members of said Board, and the vote as given shall be duly recorded by the secretary of the Board.

SEC. 4. The said Board shall hold regular meetings at least twice each month, and oftener, if deemed necessary by said Board.

Special meetings may be called by the President of the Board or any three members. Notice of all special meetings shall be served upon the members in person or by leaving written or printed notices of the same at their places of residence.

A majority of the members shall be necessary to order the expenditure of any money or make any contract, and the vote upon the same shall be taken by yeas and nays, and entered upon the minutes.

Said Board shall cause an accurate record to be made of all its proceedings, which shall be received as evidence when certified by the secretary. It shall have power to make such rules and regulations for the government of the department as may be found necessary from time to time, which shall have the power and effect of ordinances when approved by the City Council.

SEC. 5. The said Board shall have power to make all necessary repairs of houses, engines, or other apparatus belonging to the department; to purchase all necessary supplies and to contract in the name of the city for new houses and apparatus; provided, that for all contracts exceeding five hundred dollars in amount, the approval of the City Council shall first be obtained. No Commissioner, or other officer of the Board, or employe of the department, shall be interested in the profits of any contract, and no officer or employe shall have power to incur any liability on account of said Board, unless expressly authorized to do so at a meeting of the Board by a majority of the members thereof. At least ten days notice shall be given

in some newspaper of general circulation in such cities of the first-class, of the reception of proposals for the performance of any contract exceeding five hundred dollars in amount, and said contract shall be awarded to the best and lowest bidder who shall furnish satisfactory security for the performance of the same ; and all contracts exceeding five hundred dollars in amount shall be subject to the approval of the City Council as aforesaid.

SEC. 6. The said Board shall annually certify to the City Auditor, at the time prescribed by law, the amount necessary to be levied on the grand duplicate for the support of the department for the ensuing year, and shall have no power to incur any liability on behalf of said cities of the first-class beyond the amount so levied or appropriated to their order by the City Council ; and the purchase of any additional ground, building of any new house or apparatus, or the establishment of any new company, shall be made by the City Council only upon the recommendation of said Board. Said Board shall have power to locate and build such fire cisterns or reservoirs as it may deem necessary for the better protection of the property of the city, subject to the restrictions aforementioned. All claims on account of the Fire Department shall be approved by the Board and certified to the City Auditor, who shall place the same in the next ordinance for the payment of claims : the same shall be paid by the City Treasurer on the order of the City Auditor, and in the manner provided for the payment of other claims.

SEC. 7. The said Board shall have power to appoint a Chief of the Fire Department, who shall be the executive officer of the Board, and have the active management of the department in service, and such number of assistants as may be deemed necessary, who shall serve during good behavior, and who shall not be removed except for the causes in this section hereinafter for the removal of other officers, and after hearing and trial before said Board.

It shall also appoint such other officers and employes as may be necessary for the efficient management of the department, who shall hold their positions until removed by death, resignation, or other causes hereinafter mentioned, viz : incompetency, inefficiency, permanent disability, insubordination, or violation of any of the rules and regulations of the department. No officer or member shall actually participate in the political campaigns or conventions of any political party whatever, but the right of each officer and member to vote at any election as he may for himself determine, shall remain inviolate.

The Board shall prescribe the duties of all officers and members of the Board.

SEC. 9. In such cities of the first-class as aforesaid, where there now is or may hereafter be established a fire alarm telegraph attached to said fire department, the same shall be under the control and subject to the regulations of said Board of Fire Commissioners, and the chief of the fire department aforesaid shall, by virtue of his office, have a general control of the same. A superintendent and such number of operators and other employes may be appointed by said Board as may be necessary for the management of said telegraph.

SEC. 9. The said chief and assistants shall act as fire wardens under the direction of the Board, and shall have power to enter and examine any building in which fire is used, and may condemn the same if considered dangerous to the public safety. Whenever complaint is made of the dangerous condition of any building or part thereof, it shall be their duty to immediately examine the same, and cause the proper means to be taken to put it in a safe condition. They shall make prompt examination into the cause of every fire occurring within the city limits, and for this purpose are hereby authorized to issue process for, and compel the attendance of witnesses and the production of books and papers, to administer oaths and take testimony, the material points of which shall be carefully entered in a book of record to be kept for that purpose. They shall also exam-

ine into the condition of any building reported to be unsafe, or being erected in violation of law, and shall notify the owner thereof, if found unsafe to rebuild the same, in default of which they may bring suit against the owners in any court having competent jurisdiction.

SEC. 10. Said Board shall have power to appoint one or more special fire wardens to be under the control of and subject to the rules and regulations of the department.

SEC. 11. In cities as aforesaid, the Board of Fire Commissioners shall annually recommend to the City Council salaries to be paid to the officers and members of the department, and the City Council shall thereupon fix said salaries, but at no greater rate than that recommended by said Board, and when a reduction is made from the salaries as recommended, the rate of per cent. of reduction shall be uniform among all the officers and members of the department.

SEC. 12. That an act entitled "an act supplementary to an act passed April 29, 1873, entitled, an act to create a Board of Fire Commissioners in cities having a population exceeding ninety thousand inhabitants" be, and the same is hereby repealed, and this act shall take effect from and after its passage.

O. J. HODGE,

Speaker pro. tem. of the House of Representatives.

THOMAS L. YOUNG,

President of the Senate.

Passed March 27, 1876.

TENTH ANNUAL REPORT
OF THE
DIRECTORS AND SUPERINTENDENT
OF THE
WORKHOUSE
AND
HOUSE OF REFUGE & CORRECTION,
TO
THE CITY COUNCIL OF CLEVELAND.
FOR THE YEAR 1880.

Officers.

Board of Directors:

HARVEY RICE, PRESIDENT.

J. H. WADE,

S. C. BROOKS,

GEO. H. BURT.

WM. EDWARDS.

Superintendent,

W. D. PATTERSON.

Deputy Superintendent of the Workhouse,

JOHN A. MCINTOSH.

Deputy Superintendent of the Refuge Department,

ALEXANDER MCBANE.

Principal Matron.

MRS. MARGARET A. PATTERSON.

Teachers of Refuge School,

ALEXANDER MCBANE,

W. G. ABBOTT.

CLEVELAND, JAN. 24TH, 1881.

*To the Honorable the President and Members of the City Council
of the City of Cleveland, Ohio :*

GENTLEMEN—As per legal requirement, I have the honor to present herewith to your honorable body, this, the Tenth Annual Report of the Board of Directors and Superintendent of the Workhouse and House of Refuge and Correction, for the year ending December 31st, 1880.

Trusting that the same may be satisfactory and with the request that the same be ordered printed in pamphlet form.

I am,

Yours, &c.,

W. D. PATTERSON,
Superintendent.

DIRECTORS' REPORT.

REPORT
OF THE
WORKHOUSE DIRECTORS.

To the Honorable City Council of the City of Cleveland :

GENTLEMEN:—In reporting to you the condition and affairs of the Workhouse and House of Refuge for the year 1880, we feel warranted in saying that these institutions have been conducted with encouraging success as reformatories, and with such results, in a financial point of view, as still induce us to think they can maintain themselves without the aid of special taxation. Yet this will depend upon judicious, economical management, and the general prosperity of the trade and commerce of the country.

The Workhouse and Refuge, from their earnings and incomes during the past year, have paid into the city treasury, to the credit of the Workhouse Fund, the sum of \$83,321.68, and, after drawing upon that fund for the current expenses of the year, left a balance in the treasury at the close of the year of \$7,300.81 standing to their credit, and with which to commence the year 1881.

WORKHOUSE.

The Workhouse department commenced the year 1880 with 274 inmates on hand ; received during the year, 1,060 ; discharged, 1,075, leaving 259 in custody January 1, 1881. The whole number imprisoned in the course of the last year was

1,334. It is now ten years since this institution was organized and put into operation. During that period it has received within its walls 12,470 convicts.

This last fact is a landmark in the brilliant career of Cleveland which should attract the attention of the philanthropist, and, although an unwelcome fact, naturally invites inquiry as to what is the cause which has produced this demoralization, and what is the remedy. The inquiry is not only important, but involves a problem in ethics, which never has been, and in all probability never will be satisfactorily solved while human nature remains what it now is. Yet, in this age of an advanced civilization, no reasonable effort should be relaxed which carries with it an influence tending to elevate the standard of public morals and reclaim the vicious from a life of degradation. But the philanthropist must first comprehend what human nature is, and what are its temptations, its propensities and its needs, before he can succeed in effecting the moral reformation of the wayward and the vicious, or relieve, with proper discrimination, the poor, the sick and the unfortunate.

There is no city in the United States, perhaps, more renowned for its liberal charities and care of the poor than Cleveland. If she errs at all in this respect, she errs in bestowing her charities with too liberal a hand. While the aim is good and dictated by generous hearts, it may well be questioned whether the effect does not encourage idleness and increase the number of dependants, since it is a conceded fact that a large number, probably half, receive the benefits, who are unworthy applicants. Hence, the more charities, the more dependants. It is difficult to estimate the entire amount of charities in dollars and cents, which our benevolent citizens are called upon every year to give, and actually do give; but, if we take into the account all our charitable organizations and institutions, it cannot be much less than a quarter million of dollars. And here the question arises—Is this vast expenditure necessary? If so, then what are the causes which generate this necessity? If the causes can be removed, then the necessity must cease to exist.

In pursuing this train of thought, we may assume with truth that idleness lies at the basis of moral evil. As a general rule, it is idleness that begets beggary, and beggary crime. The idler without work is soon discovered by an evil spirit ready to furnish him work. He usually accepts the work, taking his first lessons at the saloons, at the gambling dens, and then advancing to the commission of every crime known to the criminal calendar, and finally landing in the jail, workhouse, penitentiary, or on the gallows.

It is a trite saying, but, nevertheless, true, that an "ounce of prevention is worth a pound of cure." It is for this reason that we suggest, as worthy of consideration, a plan or scheme by which, in our judgment, much of the crime now committed in our city might be prevented, and much of the voluntary charities now bestowed rendered unnecessary. It is our impression that there might be established, at a convenient point in the city, an "Employment House," where all the poor of the city, able and willing to work, could find work and earn by their labor, especially during the winter months, a sufficient remuneration for supplying their physical needs. This house should be so constructed as to furnish the requisite departments for such industries as manufacturing paper boxes, tailoring, operating sewing machines, doing laundry work, and other work suitable for women; with broommaking, shoemaking, coopering, and other work suitable for men; the employees to be paid what they could earn in such supplies as they or their families might need. All this to be done under the supervision of competent foremen. The requisite raw materials and tools to be furnished, including the cost of buildings and land, by charitable donations, or by obtaining legislation authorizing a tax levy. Doubtless, contracts could be made with outsiders for doing much of the work. In this way it is quite possible that the proceeds arising from labor might become sufficient to pay the wages of the employees; if not, the proceeds would at least materially aid in reducing the current expenses of maintaining the institution.

If the plan we have ventured to suggest were adopted, we feel confident that it would have the effect to abate largely the burden of voluntary charities which are now annually bestowed by our citizens, as well as inspire the worthy poor with a higher degree of self-respect, by encouraging them in habits of industry, and thus elevate them in the scale of useful citizenship. In regard to the unworthy poor, who are able but unwilling to work, it is clear that they deserve no charitable aid and should have none. The law should furnish this class with work by compulsion. As to that class of worthy poor, who are physically unable to work, they should be kindly provided for at the Infirmary, or by its outside aid, at the public expense.

We have been led to make these suggestions from the long experience we have had in the management of the Workhouse—an experience which satisfies us that idleness is the progenitor of crime and profligacy. It would seem, therefore, much wiser to remove the cause of crime than undertake to reform the criminal, and fail in the attempt. If all the idlers of our city, who are able to work, were employed at some industry, the effect would be to supersede the necessity of at least one-half of our present charitable organizations, relieve our merchants and other benevolent persons from constant alms-giving importunities, reduce the patronage of our saloons, and save Cleveland from the disgrace of sending from twelve to thirteen hundred of her citizens every year as convicts to the Workhouse. When employment, sufficient for their support, shall be given to the idle and unfortunate, who are able to work, instead of charity, then, and not till then, will honesty and sobriety prevail, and the dawn of a brighter day cheer the onward march of our modern Christian civilization.

HOUSE OF REFUGE.

The character of this department is simply that of a common school to which wayward boys and girls, who are vagrants, incorrigible, or guilty of petty offenses, are sent by our courts

or by their parents and guardians, to be trained and educated. This method of instruction is limited to such as are less than sixteen years of age. Though this institution stands in close proximity to the Workhouse, and is placed under the control of the same Directory, yet it is as distinctly separate from the Workhouse in its operation and management, as if it were miles away. In this relation, it can be conducted and maintained at a much less expense, than if placed elsewhere, and still with moral results that are excellent in the formation of character.

The school commenced the year 1880, with 106 pupils, received during the year 107 and discharged 92. Total within the year 213—23 of whom were girls. The entire number received into the school since it was first organized, now nearly ten years ago, is 937. This seemingly large number of youth have received a degree of education and moral training which has been to them a timely blessing, and, in most instances, where they have remained until they had reached the "roll of honor," they left the institution thoroughly reclaimed. We doubt not there are still hundreds, if not thousands, of this wayward class of youth resident in our city, who, owing to the unpardonable neglect of their parents and guardians, should be gathered into this school where they would receive by compulsion the education and moral training they so much need, in order to fit them to become useful and respectable citizens.

Schools of this character, taking human nature as it is, are, in our judgment, not only indispensable, but should be multiplied throughout the State, especially as our public school system fails to give every child in the State a good common English education—an extent of public education to which every child in the land has a God-given right.

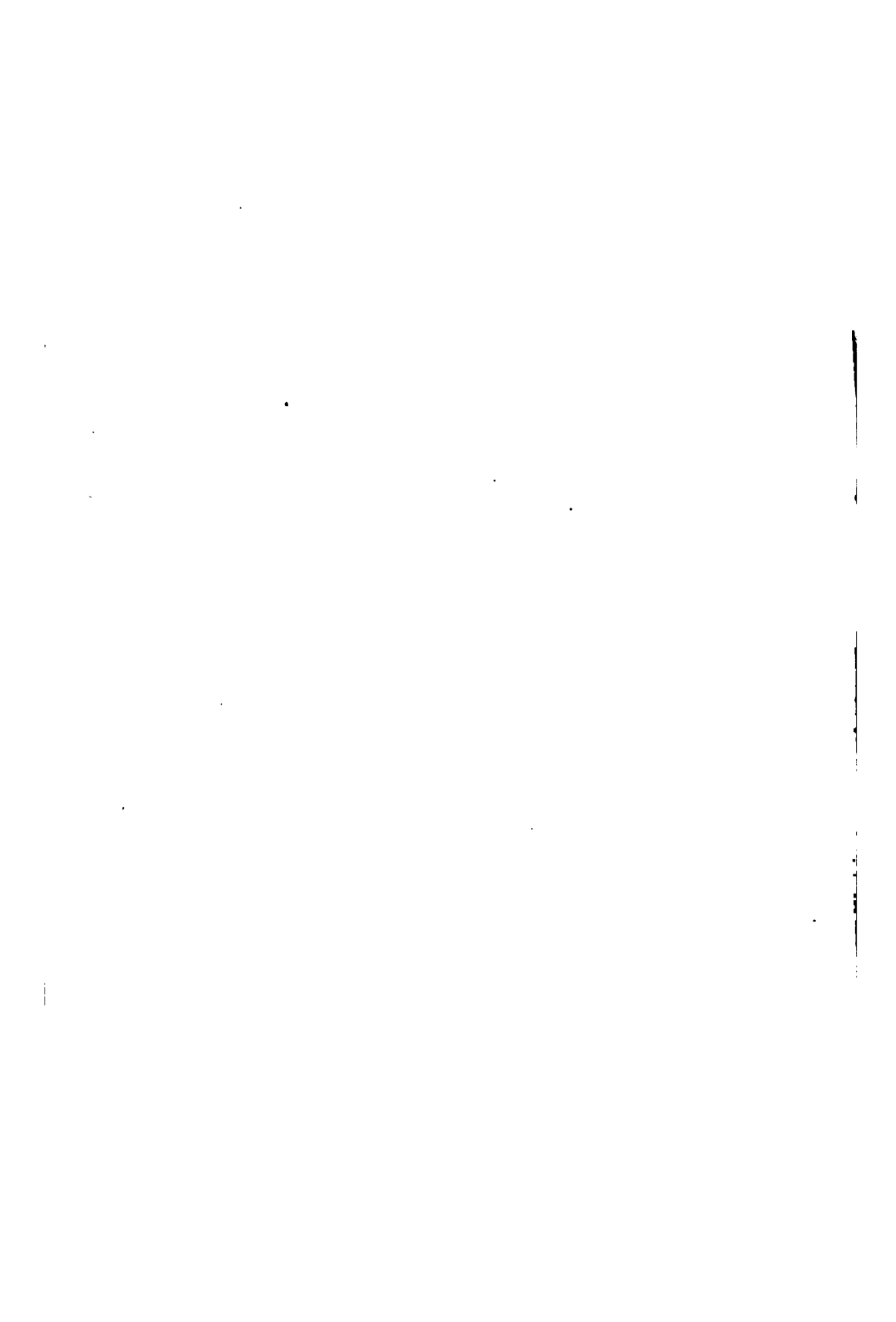
With a view to increase the efficiency of the Refuge school the Directory has recently classified the pupils into three classes according to acquirements, and established for them a course of studies in the branches of a common English education, which is deemed indispensable in order to effect the true object

of the school. Hereafter no pupils will be discharged from this institution until they have completed the course of education as prescribed, except for special reasons of an imperative character.

For a more full and specific statement of the statistical and financial condition of these institutions, we refer your honorable body to the highly satisfactory report of the Superintendent hereto attached. In a word, every effort has been made which reasonably could be, during the past year, as in former years, on the part of the Directory and officers, to promote and advance the moral and material success of these institutions. The Superintendent and Matron, Mr. and Mrs. Patterson have faithfully devoted themselves, as they ever have done, to their official duties, and by their eminent skill and constant vigilance, have contributed largely to secure the success and sustain the commendable character, which these institutions now enjoy. The subordinate officers, not only deserve, but have our cheerful approval of the manner in which they have discharged their respective duties. We regard the future prospects of these institutions as highly encouraging, and trust that with the continuance of the generous liberality your honorable body has ever exhibited toward us these encouraging prospects will be fully realized. All of which is respectfully submitted.

HARVEY RICE,	} <i>Directors.</i>
GEO. H. BURT,	
J. H. WADE,	
WM. EDWARDS,	
S. C. BROOKS,	}

SUPERINTENDENT'S
REPORT.



SUPERINTENDENT'S REPORT.

To the Honorable Board of Directors of the Workhouse and House of Refuge and Correction, Cleveland, O.:

GENTLEMEN.—Duty requires me at the close of another year to present to your honorable body my Annual Report. In order that you may the more thoroughly understand the operations and workings of these combined institutions, I invite your attention to the carefully prepared accounts on exhibits of these departments, and also to the statistical tables.

In preparing annual reports of public institutions, one year is so much like another in its operations, and the daily routine duty of every day is so much like the previous days, that we find difficulty in presenting to you in a general way anything new or of special importance, without following in the stereotyped forms and construction of past years. As a rule, their general features are but a re-print of former ones, differing only in minor details, nor do we expect in this to be an exception to the general rule. But, our aim shall be, as it always has been, to present facts and figures, plainly and briefly stated, rather than to indulge in fancy.

POPULATION.

The year commenced with a population of two hundred and seventy-four (274) persons under our care, of whom two hundred and twenty-six (226) were males and forty-eight (48) were females.

There were added during the year, by committals from the various courts of the city, including the United States Court, ten hundred and sixty (1060) persons, of whom eight hundred and eighteen (818) were males and two hundred and forty-two (242) were females. In the same period ten hundred and seventy-five (1075) persons were discharged. Of these eight hundred and forty-one (841) were males and two hundred and thirty-four (234) were females, leaving in confinement December 31, two hundred and fifty-nine (259) persons. Of these there are two hundred and three (203) males and fifty-six (56) females, being fifteen (15) persons less than at the beginning of the year.

We find the average number in the Workhouse to have been as follows per month: Males, one hundred and ninety-eight (198), and females, sixty-two (62).

In the House of Refuge the average was one hundred and two (102) boys and eleven (11) girls.

In the whole aggregate number of persons committed for the year we find that quite a large number of those committed for short terms, after release from prison, are again committed a second, third, and, in some cases, many times. It would appear from this statement that sentences for short periods utterly fail in accomplishing the desired object, viz.: the repression of crime and the ultimate reformation of the prisoner.

I am fully persuaded that after a man or woman has been two or more times committed to a penal or reformatory institution by reason of the same offense under existing laws, the law and the imprisonment having failed to accomplish their reformation, that then another system should prevail—that of an indeterminate sentence. Instead as now, let them be committed, as children are, to the House of Refuge, “until reformed;” or, as prisoners are now committed to the New York State Reformatory at Elmira, until their reformation is accomplished. An imprisonment in such cases would not only be wise and bene-

ficial to the offender, but would be of especial advantage to the community financially.

In exhibit A you have the financial statement, showing in detail the receipts and disbursements for the year, together with the balance on hand at the beginning of the year, and the net receipt from the tax levied in the previous year. Thus showing that the whole fund from all sources for the year amounted to the sum of one hundred and twenty three thousand six hundred and five dollars and fifty-seven cents. (\$123,605.57).

In same period the disbursements, as you will see by warrants upon the City Treasurer, as per Council ordinance, amounted to the sum of one hundred and thirteen thousand one hundred and thirty-four dollars and thirty-one cents (\$113,134.31). These disbursements being for one month of 1879 and eleven months of 1880.

In exhibit C is shown the whole expenditure for the year in both departments, and also the gains from all sources, including boarding and cash from fines in State cases.

From these statements you will notice an increased expenditure over last year. This arises in part in the furnishing, bedding and clothing, and a balance on cooking and heating apparatus for the House of Refuge for girls, and a Matron for the same. These are expenses that we have not had in the past and, will not again for some years.

Our revenue has also been diminished by a transfer of all cash arising from fines in city cases, to the Police Court Fund, instead of remaining in our fund, as in the past. This item alone amounts to the sum of nineteen hundred and eighteen dollars and eight cents (\$1,918.08).

We entered upon the year, its duties and responsibilities full of expectation as to financial success, confident from results achieved in the two last past years, that we were not longer dependent upon a tax levy to carry us through. The year just

closed—unlike either of the four last—did not meet our expectations in sales of goods, and it will be remembered that this is the source from which we are to maintain ourselves. But during the last five months of the year we were unable to make sales of our goods as we had anticipated. The market was overstocked and dealers refused to buy, and we closed the year with greatly reduced sales and a stock of manufactured goods on our hands, such as we have not had in the past. If we could have sold, the result would have been more satisfactory. Our expectations, indulged in in the early part of the year, have not been fully realized. Still we are confident that if all our production of goods can be sold at fair prices, we shall be enabled to maintain ourselves and our position, as a self-supporting institution.

HOUSE OF REFUGE.

In this department we had, at the beginning of the year, one hundred and three (103) boys, and three (3) girls, or a total of one hundred and six (106). Committed during the year eighty seven (87) boys, and twenty (20) girls, making a total under one care during the year of two hundred and thirteen (213).

The discharges in the same time were ninety (90) boys and two (2) girls, a total of ninety-two (92); leaving with us Dec. 31, one hundred (100) boys, and twenty-one (21) girls; a total of one hundred and twenty-one (121); showing a gain of fifteen (15) persons during the year.

The children committed to our care, are schooled a part of every day, and employed in some industrial pursuit the balance of the day.

The boys' schools have been under the same corps of teachers as in the past, viz.: Alexander McBane, the Principal; and W. G. Abbott, his assistant.

The boys of these schools have made commendable progress in their studies. The health of the department has been uniformly good. Good order and discipline have been maintained.

The rule being love and kindness, rather than severity or harsh measures.

The Refuge for females, was opened Jan. 1, 1880, with three girls, these forming a nucleus, to which has been added from time to time, so that at the close of the first year of our history, we have a family of twenty-one girls. They were placed under the care of Mrs. Rebecca Bears, who was selected as Matron for that department, she at the same time acting as teacher to the girls. These girls range in ages from eight to sixteen years, and are, for the most part, bright, intelligent and happy.

We aim to conduct this branch of our house more as a family home, than as a place of restraint, and at the same time keep prominently in view, the reformation of its inmates. We are impressed every day, more and more, with the magnitude of this branch of our work, and the great responsibility resting upon us, in the training and culture of these youth; and can see in their future great possibilities for usefulness, if the training here received, be of that character that cultivates both head and heart.

Both boys' and girls' schools are now conducted under the new rules and regulations adopted by your honorable board in December, for a more thorough classification, and systematic course of studies, than we have had in the past, and which we are satisfied shall be of lasting benefit to the youth here collected.

HEALTH.

A good degree of health has been enjoyed during the year in all our departments. Though in a population of the size of this one, there are many ills and aches, requiring the care of a physician. Four of the Workhouse inmates have died during the year, two males and two females.

The sick have been under the care of Dr. H. F. Biggar, the physician in charge—assisted at times by Drs. Buehl, Stevenson and McGee. The eyes have been under the care of Drs. Phillips and Smith.

RELIGIOUS.

Services have been regularly conducted in the Chapel on the Sabbath day, as in the past—all denominations being equal. The pastors of the various city churches conducting service on every alternate Sabbath, and the Young Men's Christian Association on the intervening day. The Catholic church have regularly held a Sunday morning service on alternate days.

The women and girls have had, at stated times, special and more private religious instructions from some of the best Christian ladies of the city. We have good reason to believe that these instructions and Christian teachings have not all fallen upon a barren waste, but that some, at least, of the seed thus scattered, has found a lodgment in good and honest hearts, which will tell upon the future of their lives. Our observation is—that these unfortunates are not beyond the reach of Christian influences, and if ever reached and saved, it must be by the renewing power of the Gospel.

We are under many obligations to various ministers of the city for their visits and practical sermons preached to the people here, and also to delegations from the Y. M. C. A., for kindly religious instructions. We would not forget the Christian ladies of the city who have shown so much interest in our unfortunate women and the girls.

As in the past, you as a board of directors, and in your individual capacity, have shown me uniform kindness; you have borne with my imperfections, and aided me by your experience, wise counsels, and hearty co-operation, for which I am profoundly grateful.

Yours, etc.,

W. D. PATTERSON,
Superintendent.

STATISTICAL TABLES.

STATISTICAL TABLES.

EXHIBIT "A."

Statement of Receipts and Disbursements.

1880.

Jan. 1	Cash on hand with City Treasurer	\$22,906 17		
	Superintendent.....	2,422 74		
			\$ 25,328 96	
Dec. 31	Cash receipts for the year from Workhouse	78,312 80		84,069 84
	Refuge.....	5,755 74		14,207 27
	Cash receipts for the year from Taxes			123,605 57
	DISBURSEMENTS.			
	Cash paid by Warrants on City Treasurer.....			118,134 81
	Balance on hand			10,471 26
	Viz: With City Treasurer.....	7,900 81		
	Superintendent.....	8,170 45		10,471 26

Detailed Statement of Receipts.

1880.

	FROM WORKHOUSE.			
Dec. 31	Received on Brush Account.....			\$74,409 52
	Shoe			93 72
	for sale of Rags and Paper Waste.....			33 64
	Scrap Iron.....			64 19
	Soap Grease			125 48
	Barrels			145 16
	Live Stock.....			231 00
	Sundries.....			48 96
	for Labor			20 49
	Boarding Prisoners			1,439 93
	Fines, State Cases.....			1,702 57
	FROM HOUSE OF REFUGE.			
	Received for Boarding Inmates.....	\$5,672 88		
	Sale of Chair Seats.....	82 42	5,755 30	
	Receipts as above stated.....			84,069 84

EXHIBIT

Statement Showing Property on Hand and

DR.

1880.

EFFECTS.			
Dec. 31	Amounts due by sundry persons on Book Accounts to Workhouse	\$37,512 76	
	Amounts due by sundry persons on Book Accounts to House of Refuge	1,683 94	
			\$39,196 70
	Furniture and Fixtures on hand in Workhouse	4,744 47	
	" " " " House of Refuge	1,231 57	
			5,976 04
	Clothing and Bedding on hand in Workhouse	3,163 98	
	" " " " House of Refuge	2,994 78	
			6,158 76
	Stationery, Blanks, etc., on hand in Workhouse	57 38	
	School Books, etc., on hand in Refuge	174 83	
			232 21
	Shoes on hand in Workhouse	434 75	
	Shoes " " Refuge	426 75	
			861 50
	Provisions on hand in Workhouse		385 01
	Medicines " " "		39 80
	Fuel, etc., " " "		49 62
	Shoe Shop Tools and Mat's on hand in Workhouse		153 83
	Brush Shop manufactured stock	14,469 39	
	" " " raw	21,258 11	
			35,728 16
	" " Tools, etc.		5,521 99
	Blacksmith " " "		18 60
	Engine Oil, Waste, etc.		40 14
	Lumber, etc.		72 30
	General Implements		1,556 80
	Laundry Machinery, etc.		725 30
	Live Stock, Hay and Feed		919 65
	Cash in hands of Superintendent	3,170 45	
	" " " City Treasurer	7,300 81	
			10,471 26
			108,117 37

EXHIBIT

Statement Showing Expenses and Profits of Cleveland
Dr.

1880.

EXPENSES.			
Dec. 31	Cost of Furniture and Fixtures,	Workhouse	\$ 1,042 81
		Refuge. . . .	153 86
			\$ 1,196 67
	" Clothing and Bedding,	Workhouse	2,061 06
		Refuge.	293 77
			2,354 85
	" Sundry Supplies,	Workhouse	2,023 20
		Refuge.	211 09
			2,234 89
	" Shoes,	Workhouse	518 32
		Refuge.	79 17
			592 49
	" Medical Services and Supplies,	Workhouse	569 30
		Refuge.	283 55
			852 85
	" Salaries of Employes,	Workhouse	12,493 23
		Refuge. . .	1,483 34
			13,976 57
	" General Improvements,	Workhouse	1,299 17
		Refuge.	85 78
			1,384 95
	" Special " " "		73 27
	" Provisions,	Workhouse	17,304 01
	" Fuel and Light,		4,122 04
	" Brush Shop Implements,		2,210 35
	" Blacksmith " "		17 20
	" General " "		252 85
	" Engine Supplies,		130 09
	" Repairs to Heating Apparatus,		21 98
	" " Boilers,		156 70
	" Laundry,		705 41
	" Hay and Feed,		683 92
	Boarding House of Refuge Inmates and Employes		9,540 43
	Loss by Bad and Doubtful Book Accounts.		394 10
			\$ 58,205 60

EXHIBIT

Statement Showing Monthly Bills Approved and Sent to

1880.

Jan.	31	Bills to Date Sent to City Auditor.....	\$ 12,915 42
Feb.	28	" " " " " ".....	11,020 28
Mar.	31	" " " " " ".....	11,140 81
April	30	" " " " " ".....	5,464 25
May	31	" " " " " ".....	9,328 01
June	30	" " " " " ".....	11,523 76
July	31	" " " " " ".....	9,573 65
Aug.	31	" " " " " ".....	9,414 90
Sept.	30	" " " " " ".....	7,441 19
Oct.	31	" " " " " ".....	6,255 54
Nov.	30	" " " " " ".....	8,441 64
Dec.	31	" " " " " ".....	2,908 60
		Add for Bills of December, 1879, paid in 1880.....	9,539 85
			\$115,942 91

EXHIBIT

Superintendent's

1880.

Jan. 1	Balance on hand at this date	\$ 2,422 79
Dec. 31	Receipts to date (Exhibit "A")	84,069 34
" 31	Receipts from Taxes to date (Exhibit "A")	14,207 27
		<hr/>
		\$100,699 40

EXHIBIT

Statement of Workhouse and House of Refuge and

1880.

Jan. 1	Balance in hands of Treasurer (Exhibit "A")	\$ 22,908 17
Dec. 31	Taxes collected to date (Exhibit "A")	14,207 27
Dec. 31	Cash deposited by Superintendent to Date (Exhibit "E")	83,221 68
		<hr/>
		\$120,435 12

" E. "

Cash Account.

1880.

Jan. 31	Deposited in City Treasury to Date	\$ 2,275 00	
Feb. 28	" " " "	5,700 00	
Mar. 31	" " " "	4,534 00	
April 30	" " " "	15,424 92	
May 31	" " " "	5,645 20	
June 30	" " " "	10,514 00	
July 31	" " " "	8,250 00	
Aug. 31	" " " "	7,587 70	
Sept. 30	" " " "	18,354 35	
Oct. 31	" " " "	6,684 10	
Nov. 30	" " " "	3,650 00	
Dec. 31	" " " "	8,909 68	\$ 97,528 85
" 31	Balance in Superintendent's hands (Exhibit " B ").		3,170 45
			\$100,699 40

" F. "

Correction Funds in City Treasury.

1880.

Dec. 31	Warrants paid by Treasurer to date	\$118,134 31
	Balance in hands of Treasurer at date (" Exhibit A ")	7,300 81
		\$120,435 12

Statement of Amount of Fines Collected by Superintendent
IN CITY AND STATE CASES FOR THE YEAR 1880.

MONTH.	City Cases.	State Cases.	Total.
January	\$75 88	\$154 12	\$230 01
February	63 80	76 85	140 65
March	199 36	69 71	269 07
April	100 23	369 45	568 68
May	169 79	83 80	258 59
June	263 67	149 08	412 75
July	254 35	94 33	348 68
August	138 00	194 97	332 97
September	219 12	168 30	387 42
October	123 82	217 53	341 35
November	122 53	72 21	194 74
December	88 53	52 21	140 74
Total	\$1,918 08	\$1,702 57	\$3,620 65

WORKHOUSE STATISTICS.

TABLE NO. 1.

	Male	Female	Total
Remaining January 1st, 1880	226	48	274
Whole number committed during 1880.....	818	242	1060
Total.....	1044	290	1334
Discharged during 1880	841	234	1075
Total remaining December 31st, 1880.....	203	56	259

TABLE NO. 2.

Number Received Each Month.

	Male	Female	Total
Remaining January 1st, 1880	226	48	274
Received during January, 1880.....	67	13	80
“ “ February.....	68	17	85
“ “ March.....	81	32	113
“ “ April.....	56	15	71
“ “ May.....	53	24	77
“ “ June.....	62	27	89
“ “ July.....	66	18	84
“ “ August.....	63	19	82
“ “ September.....	73	16	89
“ “ October.....	65	21	86
“ “ November.....	100	23	123
“ “ December.....	64	17	81
Total.....	1044	290	1334
Discharged during 1880	841	234	1075
Remaining December 31st, 1880.....	203	56	259

TABLE NO. 3.

Committed by the following Courts :

	Male	Female	Total
Police Court	791	299	1090
Common Pleas Court.....	10	3	13
United States District Court.....	11	0	11
Probate Court.....	3	0	3
Justice Court	3	0	3
Total	818	242	1060

TABLE No. 4.

Offenses.

	Male.	Female.	Total.
Assault and battery.....	52	4	56
" " threatening	2	0	2
Abusing family.....	13	1	14
Carrying concealed weapons.....	5	0	5
" " " and assault and battery....	1	1	2
Cohabiting in a state of fornication	1	0	1
" " adultery	0	1	1
Common beggar.....	9	0	9
" prostitute	0	15	15
Cruelty to animals.....	1	0	1
" " minor children	1	2	3
Destroying property	9	0	9
Disorderly conduct.....	24	14	38
" " and carrying concealed weapons	1	0	1
" " " suspicious person.....	1	0	1
" " " vagrancy	1	0	1
Disturbance	43	8	51
Embezzlement	5	0	5
Escaping from work house.....	0	1	1
Execution.....	2	1	3
Forcibly breaking into post office with intent to com- mit larceny	2	0	2
Gambling	1	0	1
Habitual disturber of the peace.....	2	1	3
Having in possession false coins.....	1	0	1
" an indecent model in possession.....	1	0	1
Indecent conduct.....	12	7	19
" exposure of person	3	0	3
Intoxication	329	7	466
" and carrying concealed weapons.....	1	0	1
" " resisting officer	2	0	2
" " disorderly conduct.....	1	1	2

TABLE NO. 4—Continued.

	Male	Female	Total
Intoxication and violating property ordinance.....	1	0	1
Keeping disorderly house.....	1	2	3
" house of ill-fame.....	2	2	4
Lewd and lascivious behavior.....	1	0	1
Obtaining money by false pretenses.....	6	1	7
Obstructing officer.....	1	0	1
Petty larceny.....	99	23	122
Passing and having in possession false coins.....	1	0	1
" United States counterfeit notes.....	1	0	1
Receiving and secreting cheque etc. knowing it to be			
stolen.....	1	0	1
" and concealing stolen property.....	1	0	1
Residing in house of ill-fame.....	0	3	3
Resisting officer.....	1	0	1
Robbery.....	1	0	1
Secreting and embezzling a letter which had passed into			
his hands as a mail carrier.....	1	0	1
Selling intoxicating liquors to minors.....	1	0	1
" " " " be drunk on the premises.....	1	0	1
Suspicious person.....	33	4	37
" " and carrying indecent model.....	1	0	1
Unlawfully assuming the character of a revenue officer..	1	0	1
" delivering a corpse to another for medical			
study.....	1	0	1
Vagrancy.....	98	10	108
Visiting house of ill-fame.....	5	0	5
Violating rail road law.....	9	0	9
" side-walk ordinance.....	4	0	4
" property.....	9	2	11
" market.....	1	0	1
" park.....	4	0	4

TABLE NO. 4—*Concluded.*

	Male.	Female.	Total.
Violating express ordinance.....	1	0	1
" peddling " 	1	0	1
" waiter girl " 	0	1	1
" health " 	1	0	1
Wrongfully using a mare.....	1	0	1
" " " horse.....	2	0	2
Total	818	242	1060

TABLE NO. 5.

Discharged During the Year.

	Males	Female	Total
By labor.....	493	113	606
" and Cash.....	151	65	216
" " Pardon	44	13	57
" " " and Cash.....	15	3	18
By Pardon.....	22	9	31
" (President of the United States).....	1	0	1
" (Sent to City Hospital).....	1	0	1
" (" Infirmery).....	3	1	4
" (" Insane Asylum, Newburgh, O.)...	2	2	4
" and Cash.....	5	1	6
" " Fine Paid.....	14	3	17
By Expiration.....	7	1	8
" and Good Time.....	10	0	10
" " Fine Paid.....	42	15	57
" " Pardon	4	1	5
By Escape	2	0	2
By Fine Paid	20	5	25
By Death	2	2	4
By Writ of Habeas Corpus.....	3	0	3
Total.	841	234	1075

TABLE No. 6.
Monthly Average in Confinement During the Year.

Work House, average number, Males.....	198 $\frac{1}{2}$
" " " Females.....	62 $\frac{1}{2}$
House of Refuge, average number, Boys.....	102 $\frac{1}{2}$
" " " Girls.....	11 $\frac{1}{2}$

TABLE No. 7.
Committed for Sundry Times since Opening of the Institution.

	Male	Female	Total
First.....	406	90	556
Second.....	146	31	177
Third.....	67	36	103
Fourth.....	38	23	61
Fifth.....	28	15	43
Sixth.....	18	7	25
Seventh.....	20	8	28
Eighth.....	10	8	18
Ninth.....	7	2	9
Tenth.....	6	4	10
Eleventh.....	3	2	5
Twelfth.....	3	2	5
Thirteenth.....	1	3	4
Fourteenth.....	0	2	2
Fifteenth.....	0	4	4
Sixteenth.....	1	1	2
Seventeenth.....	1	0	1
Eighteenth.....	0	0	0
Nineteenth.....	0	1	1
Twentieth.....	1	0	1
Twenty-first.....	0	1	1
" second.....	0	2	2
" third.....	0	0	0
" fourth.....	0	0	0
" fifth.....	1	0	1
" sixth.....	1	0	1
Total.....	818	242	1060

TABLE No. 8.

Color.

	Male	Female	Total
White.....	755	227	982
Colored	63	15	78
Total.....	818	242	1060

TABLE No. 9.

Nativity.

	Male	Female	Total
United States....	450	101	551
Ireland	140	72	212
Germany....	91	11	102
England.....	58	18	76
Canada	32	23	55
Scotland.....	19	9	28
Bohemia	3	2	5
Switzerland.....	5	1	6
France	2	0	2
Wales.....	6	5	11
Austria.....	1	0	1
India.....	4	0	4
Hungary.....	1	0	1
Holland.....	1	0	1
Italy.....	1	0	1
Australia.....	1	0	1
Belgium.....	1	0	1
South America.....	2	0	2
Total.....	818	242	1060

TABLE No. 10.

Education.

	Male	Female	Total
Could Read and Write.....	705	152	857
“ “ only.....	32	43	75
“ neither Read nor Write.....	81	47	128
Total.....	818	242	1060

TABLE No. 11.

Religious Training.

	Male	Female	Total
Catholics.....	394	108	502
Protestants... ..	416	134	550
Jews.....	2	0	2
Atheists	4	0	4
Free Thinkers....	2	0	2
Total	818	242	1060

TABLE No. 12.

Habits of Life.

	Male	Female	Total
Claim to be Temperate	666	211	877
Confess themselves Intemperate.....	152	31	283
Total... ..	818	242	1060

TABLE No. 13.

Social Relations.

	Males	Females	Total
Married	250	185	435
Single	568	57	625
Total	818	242	1,060

TABLE No. 14.

Age when Committed.

	Males	Females	Total
Under Twenty	107	34	135
“ Thirty and over Twenty	301	80	281
“ Forty “ “ Thirty	227	69	296
“ Fifty “ “ Forty	115	34	149
“ Sixty “ “ Fifty	58	20	78
“ Seventy “ “ Sixty	15	5	20
“ Eighty “ “ Seventy	1	0	1
Total	818	242	1,060

TABLE No. 15.

Occupations.

MEN.		MEN.	
Agent	1	Coal miners	1
Auctioneer	1	Confectioners	1
Bakers	9	Cutters	1
Barbers	21	Dentists	1
Basket maker	1	Elephant trainers	1
Blacksmiths	15	Engineers	2
Bolt makers	2	Firemen	21
Boiler makers	7	Farmers	5
Book binders	1	Flax dressers	2
Book keepers	5	Finishers	1
Brass finisher	2	Florists	1
Brewers ..	1	Furniture finishers	1
Bridge builders	5	Gardeners	4
Brick makers	1	Glaziers	1
Brick layers	3	Grocers	1
Brush makers ..	3	Groom	1
Butchers ..	16	Hack drivers	3
Calkers	1	Hardware finishers	1
Carpenters	26	Harness makers ..	2
Carpet layers ..	1	Hatters	1
Cabinet makers	2	Hostlers	12
Carriage painters	1	Horse shoers	1
Carriage makers	1	House movers	1
Candy makers	1	Laborers	27
Chair seaters ..	1	Lawyers ..	2
Cigar makers	5	Locksmiths	1
Cigar packers	1	Lathers	1
Clerks	9	Millers	1
Coachmen	4	Mill hands	3
Coopers	7	Machinists	8
Cooks	9	Moulders	8

TABLE No. 15—*Continued.*

MEN.		MEN.	
Manufacturers	1	Sawyers	3
Merchants	1	Sewing machine agents. . .	1
Miners	2	Steam fitters	3
Musicians	1	School teachers	1
Marble Cutters	1	Soldiers	2
Nailers	1	Shoe makers	22
Nail feeders	1	Showmen	1
Painters	29	Springmakers	4
Plasterers	4	Stove mounters	1
Paper finishers	1	Stone cutters	9
Paper hangers	3	Stone masons	6
Peddlers	4	Tailors	8
Physicians	1	Teamsters	2
Printers	8	Telegraph Operators	2
Polishers	2	Tinsmiths	8
Porters	1	Tobacco strippers	1
Plumbers	3	Umbrella makers	1
Puddlers	6	Varnishers	1
Rail-rovers	7	Waiters	8
Reporters	1	Wagon makers	1
Riveters	1	Weavers	5
Roofers	2	Well diggers	3
Sailors	47	White-washers	5
Sail makers	1	Wire workers	1
Salesmen	7	Wood Engravers	1
Saloon keepers	2		
Total men			818

TABLE No. 15—*Continued.*

WOMEN.		WOMEN.	
Cooks.....	7	Milliners	2
Dressmakers	2	Scamstresses	4
House workers	222	Tailloresses	2
Laundresses.....	8		8
	234		
Total women.....		242	
RECAPITULATION.			
Total No. of men		618	
" " " women.....		242	
Total		1060.	

TABLE No. 16.

Pardons and Reasons Therefor.

Condition of family	18
Helpless little children	1
Humanity to parents	2
Crippled, unable to work	1
Insane, given to friends	3
Death of child	1
Petition of parents and judge	9
Physical disability	10
To go from city with parents	1
" " " to live in the country	1
" " " to home in Pennsylvania	1
" " " to the West	1
" " " to Buffalo with family	1
" " " to Columbus with father	1
" " " to Michigan to answer superior charge	1
" " " to New York to answer for horse stealing	1
" to Infirmary	4
Returned to Court for further hearing	1
Sent on his way West	1
Error in mittimus	1
Petition of prosecutor and prosecuting attorney	1
On condition of future good conduct	15
Paid fine and costs in whole or in part	34
Total	110

HOUSE OF REFUGE STATISTICS.

TABLE No 1.

	Male	Female	Total
Remaining January 1st, 1880.....	108	3	106
Whole number committed during 1880	87	20	107
Total	190	23	213
Discharged during 1880.....	90	2	92
Total remaining December 31st, 1880	100	21	121

TABLE No. 2.

Number Received Each Month.

	Boys.	Girls.	Total.
Remaining January 1st, 1880.....	103	3	106
Received during January, 1880	9	1	10
“ “ February, “	5	1	6
“ “ March, “	6	0	6
“ “ April, “	11	3	14
“ “ May, “	7	0	7
“ “ June, “	13	0	13
“ “ July, “	8	2	10
“ “ August, “	6	4	10
“ “ September, “	10	6	16
“ “ October, “	7	2	9
“ “ November, “	4	0	4
“ “ December, “	1	1	2
Total	190	23	213
Discharged during 1880	90	2	92
Remaining December 31, 1880.....	100	21	121

TABLE NO. 3.

From Where Those Admitted During the Year were Received

	Boys	Girls	Total
Police Court.....	85	20	105
Probate Court.....	2	0	2
Total	87	20	107

TABLE NO. 4.

Crimes and Offenses.

	Boys	Girls	Total
Incorrigible conduct.....	40	14	54
Petty larceny.....	21	1	22
Vagrancy.....	10	0	10
" and incorrigibility.....	0	1	1
Assault and battery.....	1	0	1
Disorderly conduct	3	0	3
Indecent	2	0	2
Homeless	4	1	5
Residing in house of ill fame.....	0	2	2
Common prostitute.....	0	1	1
Intoxication.....	2	0	2
Malicious destruction of property.....	1	0	1
Violating property ordinance.....	1	0	1
" railroad law.....	1	0	1
Total	87	20	107

TABLE No. 5.

Discharged During the Year.

	Boys.	Girls.	Total.
Reached Honor.....	63	1	64
Pardon (fine paid)	2	0	2
" (board paid).....	1	0	1
Writ of Habeas Corpus	2	0	2
" Error.....	1	1	2
Pardon	20	0	20
Transferred to Work House..	1	0	1
Total	90	2	92

TABLE No. 6.

Monthly Average in Confinement During the Year.

	Boys.	Girls.	Total.
Whole number inmates received during the year.....	87	20	107
" " discharged " "	90	2	92
" " remaining Dec. 31. 1880.....	100	21	121
Average number of inmates.....	102.08	11.75	113.83

TABLE No. 7.

Color.

	Boys.	Girls.	Total.
White.....	81	17	98
Colored.....	6	3	9
Total.....	87	20	107

TABLE No. 8.

Nativity.

	Boys	Girls	Total
Canada.....	3	0	3
China	1	0	1
Australia	1	0	1
England	4	0	4
Germany	1	1	2
Ireland.....	2	0	2
Scotland	1	1	2
Sweden	1	0	1
United States.....	73	18	91
Total	87	20	107

TABLE No. 9.
Religious Training.

	Boys.	Girls.	Total.
Protestants	44	17	61
Catholics	42	3	45
Jews	1	0	1
Total.....	87	20	107

TABLE No. 10.
Education.

	Boys.	Girls.	Total.
Could read and write	67	12	79
“ “ only	9	5	14
“ neither read nor write	11	3	14
Total.....	87	20	107

TABLE No. 11.

Social Relations.

	Boys.	Girls.	Total.
Having both parents.....	53	12	65
" one parent only	25	5	30
Orphans.....	9	3	12
Total.....	87	20	107

TABLE No. 12.

Age When Admitted.

	Boys.	Girls.	Total.
Under ten	15	3	18
Ten and under twelve.....	16	2	18
Twelve and under fifteen.....	43	6	49
Fifteen to eighteen.....	13	9	22
Total	87	20	107

TABLE NO. 13

Pardons House of Refuge and Reasons Therefor.

	Boys.
Pardoned on condition of future good conduct.....	3
“ “ “ Judge	2
“ and sent to friends outside of Cleveland.....	9
“ insane—sent to friends.....	1
“ on account of sickness, given to parents.....	2
“ sent to Infirmary—sick, and no parents.....	1
“ on account of condition of family.....	1
“ to remove with parents from city.....	1
“ boarding paid	2
“ fine paid.....	1
Total	23

HOSPITAL DEPARTMENT.

To the Honorable Board of Directors of the Cleveland Workhouse and House of Refuge and Correction :

GENTLEMEN:—

I have the honor to present the Annual Report of the Hospital Department of the Cleveland Workhouse and House of Refuge and Correction for the year 1880.

No. of Visits,	-	-	-	-	215
" " Patients treated,			{ Males,	838	
			{ Females,	389	
				—	1,227
" " Prescriptions dispensed,			{ Males,	1,689	
			{ Females,	728	
				—	2,417

Five Deaths: One from impaction of the bowels and four from pulmonary consumption.

There has been no epidemic. The health of the prisoners has been very good. The care and attention from the officers unexceptional.

Yours most Respectfully,

H. F. BIGGAR,

Surgeon in Charge.

Cleveland, O., Jan. 1881.

ANNUAL REPORT
OF THE
BOARD
OF
INFIRMARY DIRECTORS
TO THE
CITY COUNCIL,
TOGETHER WITH
THE REPORTS OF THE OFFICERS OF THE BOARD,
FOR THE YEAR ENDING DECEMBER 31, 1890.

DIRECTORS' REPORT.

OFFICE BOARD OF INFIRMARY DIRECTORS, }
CLEVELAND, O., January 1, 1881. }

To the Honorable City Council :

GENTLEMEN—In submitting our annual report for the year just closed, we take great pleasure in calling your attention to the decrease in the ordinary expenditures of this department during the last year.

A part of the saving is undoubtedly due to the revival of business and increased demand for labor, but a large share of the credit is due to the new system of administration, which has completely changed the method of this department, so that, while under the old system pauperism was officially sanctioned and encouraged, our present efforts are in the interest of the tax-payers.

The organization of the department has remained unchanged during the year, and we have no improvements to suggest to your honorable body, not because we believe our present plans to be perfect, but because they are fully equal to the demands of the public, as expressed in our State Laws.

We believe pauperism to be a great and growing evil, that should be met with vigorous and well considered repressive laws. But until the public share the belief, it would be idle to recommend sounder legislation; and we content ourselves with the knowledge that the people of Cleveland are as well protected from the evils of pauperism as they desire to be.

The only permanent improvements added to the Infirmary buildings during the past year were a boiler house and vaults,

erected according to plans furnished by the Civil Engineer. Details of costs, etc., will be found in the Clerk's report.

We append the reports of the Superintendent, Clerk, Steward and Physician, who furnish detailed information as to the administration of the various branches of the department.

In conclusion we wish to return our thanks to the officers of this department who have performed their duties with commendable zeal and discretion.

Respectfully submitted,

WM. CUBBON,

J. C. BARTLETT,

GEORGE KIEFFER,

Infirmiary Directors.

SUPERINTENDENT'S REPORT.

Total number of applicants relieved in 1879,	-	-	1,875
Total number of applicants relieved in 1880,	-	-	1,549
<hr/>			
Decrease in 1880,	-	-	326
<hr/>			
Total number admitted into the Infirmary in 1879,	-		307
Total number admitted into the Infirmary in 1880,	-		393
<hr/>			
Increase in 1880,	-	-	86
<hr/>			
Total number relieved by out door relief in 1879,	-		1,568
Total number relieved by out door relief in 1880,	-		1,156
<hr/>			
Decrease in 1880,	-	-	412

OUT DOOR RELIEF DISBURSED.

Beans, number of pounds,	-	-	-	-	10,136
Corn meal,	"	-	-	-	18,286
Coffee,	"	-	-	-	2,189
Flour,	"	-	-	-	133,726
Oatmeal,	"	-	-	-	11,280
Pork,	"	-	-	-	2,404
Potatoes,	"	-	-	-	31,044
Rice,	"	-	-	-	3,431

Sugar,	"	-	-	-	-	-	7,187
Tea,	"	-	-	-	-	-	1,633
Fresh meat, number of orders,		-	-	-	-	-	209
Shoes, number of pairs,		-	-	-	-	-	137
Coal, number of tons,		-	-	-	-	-	1,965
Railroad passes,		-	-	-	-	-	752
Burials,		-	-	-	-	-	126
Total number of work orders issued,		-	-	-	-	-	464
Total number returned approved,		-	-	-	-	-	351
Number of orders issued, not returned,		-	-	-	-	-	113
Amount earned, paid in coal and groceries.		-	-	-	-	-	\$526 22

Respectfully submitted,

JAMES CHRISTIAN,
Superintendent.

CLERK'S REPORT.

INFIRMARY FUND.

RECEIPTS:

Balance on hand January 1, 1880,	-	-	\$37,723 31
Receipts from taxes,	-	-	10,655 46
Receipts from county,	-	-	8,893 57
Receipts from townships,	-	-	1,187 09
Receipts from City Clerk,	-	-	4,797 00
Receipts from Steward,	-	-	133 68
Receipts, miscellaneous,	-	-	778 12
Total receipts,			\$63,468 23

DISBURSEMENTS.

Ordinary expenses of running the Infirmary,	-	\$15,722 35
Permanent improvements, boiler house, etc.,	-	6,537 26
Expense of running Out Door Relief Dep't,	-	19,799 79
Miscellaneous expenditures,	-	2,595,65
Balance on hand January 1, 1881,	-	18,813 18
Total,		\$63,468 23

TABLE SHOWING THE NUMBER OF APPLICANTS IN EACH WARD, THEIR NATIVITY, ETC., HAVING RECEIVED OUT-DOOR RELIEF IN 1880.

NATIVITY.	WARDS.																		Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
United States.....	38	19	14	42	31	45	6	9	8	8	17	8	4	...	3	10	5	5	272
England	11	2	1	13	10	13	2	3	4	3	4	...	2	2	2	3	...	7	82
Germany ..	19	2	2	41	20	40	20	5	5	15	33	42	17	4	13	4	1	4	237
Ireland	35	7	14	18	64	12	30	85	24	14	12	4	7	1	6	1	5	27	366
Bohemia.....	2	...	...	...	1	19	...	...	...	...	...	5	4	15	1	2	...	1	50
Canada	9	1	6	1	7	4	2	8	2	2	2	1	...	2	...	...	...	1	48
Wales.....	...	...	1	1	1	...	2	1	...	...	1	...	...	1	...	...	...	4	12
Scotland.....	2	1	...	1	3	...	...	2	...	...	...	1	...	...	...	...	...	1	11
All others.....	8	1	...	3	1	4	3	3	1	1	1	2	...	...	...	...	...	...	23
Total.....	124	33	38	121	137	137	65	116	44	43	70	63	34	25	25	20	11	50	1,156

Respectfully submitted,

JACOB BLUIM, Clerk.

STEWARD'S REPORT.

	Males.	Females.	Total.
Number of inmates remaining at the Infirmary December 31st, 1879	164	118	282
Number of inmates admitted during the year.....	233	161	394
Number born during the year.....	4	6	10
Total	401	285	686

	Males.	Females.	Total.
Number of inmates discharged during the year.....	180	130	310
Number of inmates died during the year.....	45	22	65
Number of inmates remaining December 31st, 1880.....	178	133	311
Total	401	235	636

Average weekly number.....	274
Insane and idiotic remaining December 31st, 1879.....	128
Admitted during the year.....	33
Removed by friends.....	7
Escaped.....	1
Deaths.....	20
Number remaining December 31st, 1880.....	134
Average weekly number of insane.....	151

Of the whole number remaining December 31st, 1879, and of those remaining December 31st, 1880, 52 were under 10

years of age, 56 from 10 to 20 years, 124 from 20 to 30, 135 from 30 to 40, 117 from 40 to 50, 94 from 50 to 60, 68 from 60 to 70, 24 from 70 to 80, 12 from 80 to 90, 3 over 90; total, 685.

Excluding the amount expended for improvements, the cost of keeping each inmate was \$1.11 per week.

NATIVITY.

United States.....	224
Ireland.....	175
England.....	58
Germany.....	138
Canada.....	21
Scotland.....	12
Bohemia.....	12
Switzerland.....	12
Hungary.....	7
Isle of Man.....	3
Norway.....	3
France.....	3
Holland.....	6
Poland.....	2
Turkey.....	2
Italy.....	2
Wales.....	5
Denmark.....	2

OCCUPATION.

Barbers.....	4
Bartenders.....	8
Bakers.....	4
Blacksmiths.....	12
Brewers.....	3
Carpenters.....	21
Clerks.....	6
Coopers.....	6
Cooks.....	10
Cutlers.....	3
Engineers.....	4
Gardeners.....	10
Hostlers.....	8

Heaters.....	4
Laborers.....	165
Laundresses.....	7
Machinists.....	9
Moulders.....	5
Nailmakers.....	4
Printers.....	7
Plasterers.....	4
Peddlers.....	6
Painters.....	6
Roofers.....	1
Servants.....	106
Shoemakers.....	10
Scissorgrinders.....	2
Seamstresses.....	8
Stonecutters.....	3
Stonemasons.....	4
Tailors.....	4
Teachers.....	2
Teamsters.....	15
Sailors.....	10
Soldiers.....	3
Tinsmiths.....	4
Tramps.....	8
Waiters.....	6
Unknown.....	183

PRODUCE OF THE INFIRMARY FARM FOR 1880.

2,303 bushels of potatoes at 45c.....	\$1,036 35
1,750 " corn at 45c.....	787 50
266 " oats at 40c.....	106 40
355 " wheat at \$1 00.....	355 00
120 " onions at \$1 00.....	120 00
26 " beans at \$1 40.....	36 40
180 " carrots at 40c.....	72 00
480 " turnips at 40c.....	192 00
100 " parsnips at 40c.....	40 00
300 " apples at 30c.....	90 00
57 " beets at 40c.....	22 00
1,585 pounds of beef at 5c.....	79 25

7,928 pounds of pork at 5c.....	396 40
15 tons of hay at \$18 00... ..	270 00
4,500 heads of cabbage at 4c.....	180 00
30 loads of pumpkins at \$1 00... ..	30 00
20 acres of cornstalks at \$5 00.....	100 00
Tomatoes, peas and small fruit.....	100 00
20 acres wheat and oats straw at \$5 00.....	100 00
Total.....	<u>\$4,118 30</u>

FARM STOCK.

Horses... ..	5
Milch cows.....	8
Calves.....	3
Feeding swine.....	14
Breeding sows.....	3
Store pigs.....	30
Poultry... ..	80

Respectfully submitted,

THOMAS ROME,

Steward.

PHYSICIAN'S REPORT.

	Male.	Female.	Total.
Number remaining in hospital January 1st, 1880...	30	26	56
Number received during the year.....	116	66	182
Number born during the year.....	4	6	10
Total.....	150	98	248

	Male	Female.	Total.
Number discharged, cured or improved, during the year.....	75	68	143
Number of deaths during the year.....	34	11	45
Number remaining in hospital January 1st, 1881...	41	19	60
Total.....	150	98	248

Number of deaths in insane department.....	20
Total number of deaths in infirmary.....	65

CAUSES OF DEATHS.

Consumption.....	20
Dropsy.....	5
Debility of age.....	5
Chronic Diarrhoea.....	4
Epilepsy ..	7
Syphilis.....	4
Uraemia.....	1
Erysipelas.....	1
Dysentery.....	1

Heart disease.....	4
Inflammation of bowels.....	2
Paralysis.....	2
Cancer.....	1
Accident.....	1
Typhoid fever.....	2
Aneurism.....	2
Acute mania.....	2
Inanition.....	1
Number of prescriptions dispensed during the year.....	6,000
Daily average treated at the dispensary (not included in hospital treatment.....)	6

No marked endemic disease occurred during the year. An increased mortality is shown principally from chronic, incurable pulmonary disease and the sequela of insanity. While the ratio of mortality may seem large, it must be remembered that the Infirmary is made to a large degree the last resort of the destitute of other hospitals and reformatory institutions, as well as of those rendered homeless by poverty and vice.

My thanks are due for the cordial support of the Board and officers of the department during my term of office.

Respectfully submitted,

B. W. HOLLIDAY,
Infirmary Physician.

ANNUAL REPORT
OF THE
BOARD
OF
CEMETERY TRUSTEES

TO THE
CITY COUNCIL,
FOR THE YEAR ENDING DECEMBER 31, 1880.

TRUSTEES :

JAMES PARKER, - PRESIDENT,
G. A. HYDE, - - TREASURER,
 JACOB MEYER,
L. W. BAILEY, - - SECRETARY,

SUPERINTENDENTS OF CEMETERIES.

WOODLAND,
S. F. DRAKE.

ERIE STREET,
E. M. BISHOP, Sr.

MONROE STREET,
VALENTINE WORTH.

EIGHTEENTH WARD.
JAMES MCGUFFEY.

GENERAL CLERK OF CITY CEMETERIES,
C. E. WHEELER,
With Office at Woodland.

CLEVELAND, O., January 1, 1881.

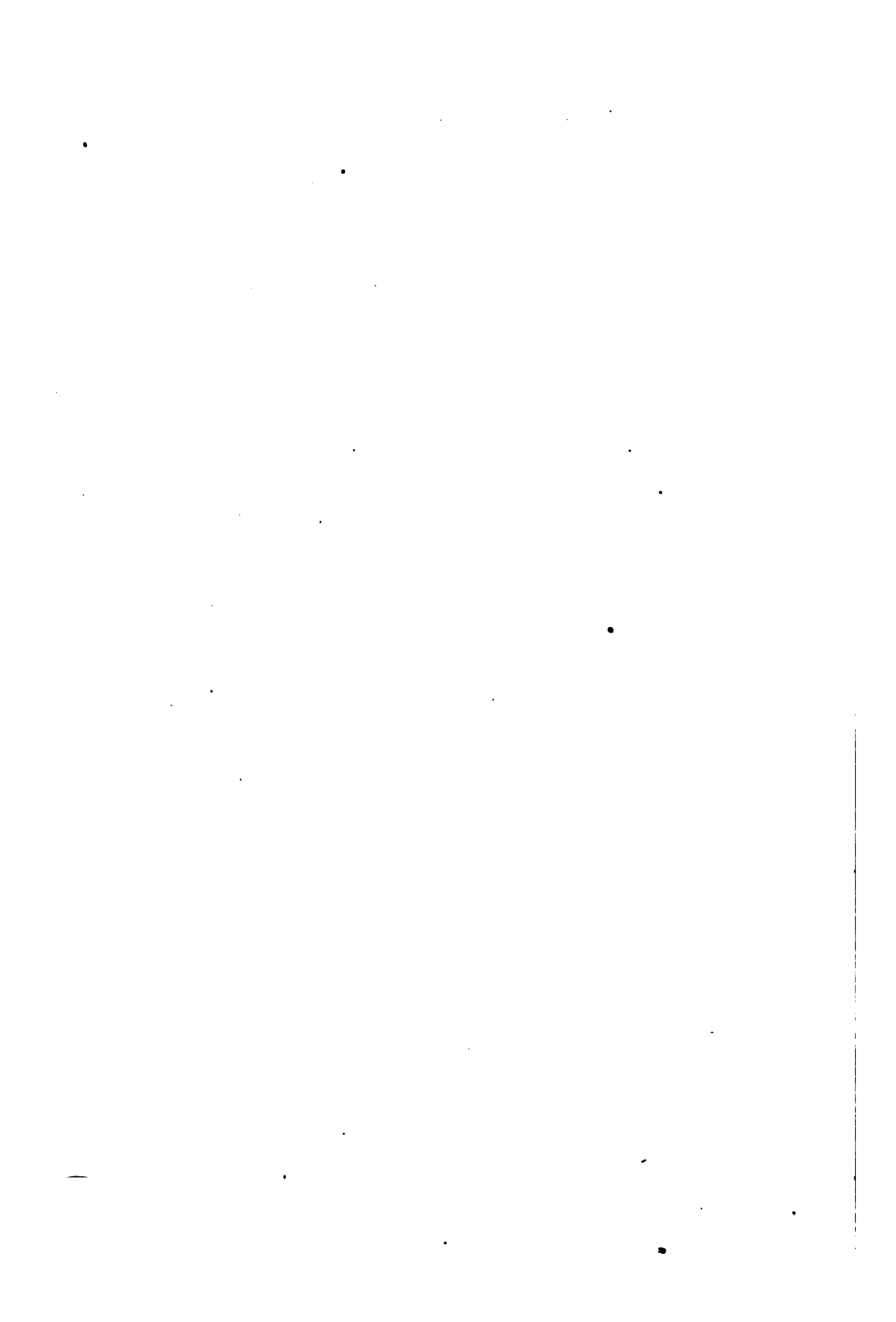
To the Honorable City Council of Cleveland, O.:

GENTLEMEN—I have the honor to herewith present your honorable body with the Annual Report of this Board for the year ending December 31st, 1880.

Respectfully yours,

L. W. BAILEY,

Secretary.



REPORT OF CEMETERY TRUSTEES.

CLEVELAND, O., January 1, 1881.

To the Honorable City Council:

GENTLEMEN—The undersigned Trustees of Cemeteries respectfully submit herewith our annual report for the year 1880.

The term of Trustee E. H. Theis expired in April last, and at the municipal election on the first Monday in April Mr. Jacob Meyer was elected for three years.

At the first meeting of the Board after said election the following organization was perfected: Trustee Jacob Meyer having qualified took his seat, James Parker was elected President, G. A. Hyde re-elected Treasurer, and L. W. Bailey Secretary. It has been the policy of the Board to conduct all matters connected with the several cemeteries with economy, which will appear upon a perusal of the various tabulated statements.

It will be seen that improvements to the amount of \$7,186 10 have been made during the year, the most noticeable of which is the erection of a gate keeper's cottage at the Quincy street entrance, and the commencement of the erection of a chapel and receiving vault in Woodland Cemetery, the first at a cost of eight hundred and thirty-four dollars (\$834), and the second, when completed, will cost nine thousand five hundred and seventy-five dollars (\$9,575). These extensive improvements were an absolute necessity, made so by the increased amount of business being done at this cemetery.

The water pipes have been extended, so the newly laid out sections will not suffer for the want of water within reasonable carrying distance.

Erie Street Cemetery has received some improvements by the extension of water pipes, to the amount of seventy-two dollars and ninety-two cents (\$72 92).

Monroe Street Cemetery has been improved by a new fence on the west side, and by some new trees and shrubbery, all of which amounted to ninety-six dollars and ninety cents (\$96 90).

Eighteenth Ward Cemetery has received some attention in the way of improvements, consisting of a new fence and having the boundary line established on Axtell street by survey, all of which has been accomplished at an outlay of one hundred and seventy-nine dollars and six cents (\$179 06).

It is not known to us that the remains of any person have been stolen from any of the city cemeteries during the year.

Following this are tabulated statements, prepared by the Secretary, showing the amount of business done, also the receipts and disbursements for the several cemeteries under the control of this Board during the year, which we respectfully submit.

JAMES PARKER,
GUSTAVUS A. HYDE,
JACOB MEYER,

Cemetery Trustees.

L. W. BAILEY, *Secretary.*

The interments during the year have been as follows :

CEMETERIES.	ADULTS.		MINORS.		GRAND TOTAL.
	Male	Female	Male	Female	
Woodland Avenue	231	201	243	219	894
Erie Street.....	37	32	72	65	206
Monroe Street.....	52	85	119	128	384
Eighteenth Ward.....	22	24	24	32	102
Totals.....	342	342	458	444	1,586

The lots and grave spaces sold in the City Cemeteries for the year, were as follows :

CEMETERIES.	No. Sold.	Amount.	Cash.	Credit.
Woodland Avenue.....	353	\$10,481 00	\$ 8,557 75	\$1,903 25
Erie Street.....	68	245 00	240 00	5 00
Monroe Street.....	235	674 00	469 00	205 00
Eighteenth Ward.....	19	106 00	108 50	2 50
Total.....	675	\$11,486 00	\$ 9,370 25	\$2,115 75

WOODLAND CEMETERY RECEIPTS.

FROM WHAT SOURCE RECEIVED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces...	\$1,071 50	\$ 748 00	\$ 686 50	\$ 998 00	\$ 818 00	\$ 582 00	\$ 542 25	\$1,087 50	\$ 949 25	\$1,116 50	\$ 610 50	\$ 504 50
Services and vault fees.....	374 70	362 70	486 52	654 46	667 53	446 50	456 36	453 07	289 40	453 90	385 08	987 45
Total receipts.....	\$1,446 20	\$1,110 70	\$1,173 02	\$1,652 46	\$1,515 53	\$ 987 50	\$ 998 60	\$1,490 57	\$1,238 65	\$1,570 40	\$ 995 58	\$1,441 95

WOODLAND CEMETERY EXPENDITURES.

FOR WHAT PURPOSE EXPENDED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay roll.....	\$ 320 61	\$ 287 87	\$ 330 46	\$ 477 13	\$ 580 79	\$ 524 68	\$ 541 84	\$ 474 36	\$ 495 99	\$ 422 00	\$ 306 23	\$ 264 54
Current expenses.....	15 62	28 84	40 57	103 04	273 26	274 52	71 99	103 29	75 36	196 71	222 69	13 31
Improvements.....	38 50	.....	26 00	108 36	24 94	55 70	220 00	26 00	437 83	619 91	2675 63	2,610 27
Total expenses.....	369 73	316 71	445 03	779 56	878 99	854 90	833 83	602 64	990 13	1,228 62	3004 75	2,991 12

ERIE STREET CEMETERY RECEIPTS.

FROM WHAT SOURCE RECEIVED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces.....	\$ 19 50	\$ 29 50	\$ 7 50	\$ 17 00	\$ 45 00	\$ 15 00	\$ 22 50	\$ 28 50	\$ 10 00	\$ 21 50	\$ 15 00	\$ 19 00
Services and vault fees	43 00	62 50	128 00	162 04	125 36	95 20	91 75	86 50	69 75	104 00	149 90	60 00
Total Receipts.....	62 50	92 00	135 50	179 04	170 36	110 20	114 25	115 00	79 75	125 00	163 90	79 00

ERIE STREET CEMETERY EXPENDITURES.

FOR WHAT PURPOSE EXPENDED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay Roll.....	\$ 81 84	\$ 81 78	\$ 102 89	\$ 130 12	\$ 156 24	\$ 148 74	\$ 153 74	\$ 182 19	\$ 129 60	\$ 116 88	\$ 105 00	\$ 96 87
Current Expenses.....	7 00	69 00	31 42	32 60	12 18	35 45	15 29	6 35	11 60	16 75	56 37	19 85
Improvements.....					72 92							
Total Expenses.....	88 88	150 78	134 31	162 72	241 34	184 09	169 03	128 54	140 60	133 63	161 37	116 72

MONROE STREET CEMETERY RECEIPTS.

FROM WHAT SOURCE RECEIVED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces.....	\$ 174 50	\$ 31 75	\$ 52 50	\$ 54 35	\$ 150 00	\$ 63 50	\$ 53 75	\$ 193 00	\$ 242 00	\$ 183 00	\$ 94 50	\$ 79 00
Services and vault fees.....	174 50	145 00	149 00	136 25	204 50	157 75	206 25	149 75	103 75	101 50	130 00	80 00
Total receipts	188 00	176 75	201 50	189 60	354 50	221 25	265 00	342 75	345 75	287 50	224 50	159 00

MONROE STREET CEMETERY EXPENDITURES.

FOR WHAT PURPOSE EXPENDED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay roll	\$ 152 13	\$ 160 88	\$ 186 50	\$ 215 09	\$ 242 75	\$ 268 50	\$ 283 88	\$ 270 40	\$ 277 61	\$ 286 82	\$ 207 88	\$ 208 86
Current expenses.....	20 30	30 85	16 00	12 24	19 71	43 73	5 61	.....	24 34	6 87	16 00	13 25
Improvements.....	.....	.....	.....	.....	28 00	23 81	.....	.....	38 09	7 00	.....	.....
Total expenses.....	172 43	191 73	202 50	227 33	290 46	336 04	290 39	270 40	340 04	300 69	223 88	222 11

EIGHTEENTH WARD CEMETERY RECEIPTS.

FROM WHAT SOURCE RECEIVED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Sale of lots and grave spaces.....	\$ 7 00	\$ 7 50	\$ 10 00	\$ 10 00	\$ 6 50	\$ 5 00	\$ 18 00	\$ 16 00	\$ 14 00	\$ 7 00	\$ 5 00	\$ 2 00
Services and vault fees.....	24 00	31 00	41 50	50 75	33 00	19 00	24 50	37 50	33 50	22 50	13 00	10 00
Total Receipts.....	31 00	38 50	51 50	60 75	39 50	24 00	42 50	53 50	47 50	29 50	18 00	12 00

EIGHTEENTH WARD CEMETERY EXPENDITURES.

FOR WHAT PURPOSE EXPENDED.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Pay Roll.....	\$ 40 00	\$ 40 00	\$ 40 00	\$ 40 00	\$ 40 00	\$ 40 00	\$ 40 00	\$ 40 00	\$ 40 00	\$ 72 62	\$ 40 00	\$ 40 00
Current Expenses.....	45	45	45	1 00	1 70	78	2 50	2 50	30 30	87 84	38 87	23 00
Improvements.....						23 85						
Total Expenses.....	40 00	40 45	40 00	41 00	41 70	63 13	42 50	40 00	70 30	160 46	78 87	63 00

RECAPITULATION.

Cemeteries and sundries.	Receipts.	Expenses.	Excess.	Deficit.
Woodland Avenue.....	\$15,550 18	\$13,205 91	\$2,344 27	
Erie Street	1,427 60	1,822 07		394 47
Monroe Street.....	2,957 10	3,067 09		109 99
Eighteenth Ward.....	448 25	728 31		280 06
Interest on deposits.....	353 06		353 05	
Amount paid for general bills....		159 50		159 50
Total.....	20,736 18	18,962 88	2,597 32	944 02

Receipts from all sources.....		\$20,736 18
Total expenses.....		18,962 88
Excess of receipts over expenses.....		1,753 30
Total excess.....	\$2,597 32	
Total deficit.....	944 02	
Net excess for 1880.....	1,753 30	

GROSS RECEIPTS OF THE SEVERAL CEMETERIES FOR THE YEARS
1878, 1879 AND 1880.

	Woodland Ave.	Erie Street.	Monroe Street.	18th Ward.
1878.....	\$ 8,022 49	\$ 1,039 13	\$ 3,150 48	\$ 331 75
1879.....	9,998 51	1,223 69	3,184 00	459 50
1880.....	15,550 18	1,427 60	2,957 10	448 25
Totals.....	34,171 18	3,690 42	9,291 59	1,239 50

TREASURER'S SUMMARY.

Amount on hand January 1st, 1880.....			\$ 5,412 49
<i>Received from sale of lots and grave spaces</i>			
Woodland Cemetery.....	\$ 9,873 50		
Erie Street Cemetery.....	250 00		
Monroe Street Cemetery.....	1,219 85		
Eighteenth Ward Cemetery.....	108 00		
Total.....		\$ 11,261 35	
<i>Received for services.</i>			
Woodland Cemetery.....	\$ 4,987 66		
Erie Street Cemetery.....	866 60		
Monroe Street Cemetery.....	1,541 75		
Eighteenth Ward Cemetery.....	298 25		
Total.....		7,644 26	
<i>Received for vault fees.</i>			
Woodland Cemetery.....	\$ 939 02		
Erie Street Cemetery.....	811 00		
Monroe Street Cemetery.....	195 50		
Eighteenth Ward Cemetery.....	42 00		
Total.....		1,486 52	
Received interest on deposits.....		358 05	
Total receipts.....			20,736 18
Grand total.....			\$ 26,148 67
<i>Amount paid for improvements.</i>			
Woodland Cemetery.....	\$ 6,837 22		
Erie Street Cemetery.....	72 52		
Monroe Street Cemetery.....	96 80		
Eighteenth Ward Cemetery.....	179 06		
Total.....		\$ 7,186 10	
<i>Amount paid pay rolls and current expenses.</i>			
Woodland Cemetery.....	\$ 6,268 89		
Erie Street Cemetery.....	1,749 15		
Monroe Street Cemetery.....	2,970 19		
Eighteenth Ward Cemetery.....	549 25		
Total.....		11,637 28	
Amount paid for general bills.....		159 50	
Total.....			18,962 88
Balance to credit of fund January 1st, 1881..			\$ 7,165 79

TREASURER'S SUMMARY—*Continued.*

Amount to credit of Fund arising from sale of lots, January 1, 1880	\$ 5,412 49
Received during the year from sale of lots and grave spaces	11,251 35
Received interest on deposits	353 05
Total	\$17,016 89
Expended for improving and embellishing the cemeteries,	\$7,186 10
Amount taken from the fund arising from the sale of lots grave spaces, to pay Pay Rolls and current expenses,	2,665 00
Total.....	9,851 79
Balance January 1, 1881, to credit of fund.....	\$7,165 79
Amount to credit of fund for general purposes, January 1, 1880.....	\$ 000 00
Received during the year for services and vault fees.....	9,181 78
Received from the fund arising from the sale of lots and grave spaces.....	2,665 00
Total.....	\$11,796 78
Pay Roll and current expenses during the year.....	\$11,796 78
Balance January 1, 1881, to credit of general fund	\$ 000 00
Total amount running expenses for the year.....	\$11,796 78
Total receipts for services and vault fees.....	9,181 78
Amount taken from the fund arising from the sale of lots and grave spaces.....	\$2,665 00

It will be seen by the foregoing statement that, as in years past, the running expenses (other than for improvements) of the several Cemeteries, are largely in excess of the receipts for services and vault fees, which receipts should constitute the fund, from which running expenses should be paid. And as in this case when the receipts, applicable for the purpose, are not sufficient to pay running expenses, a levy should be made for enough to place this fund in a condition to meet the ordinary demands upon it.

It has been the custom for years past to use the fund arising from the sale of lots and grave spaces to pay running expenses,

thereby making the several cemeteries self sustaining, until such time as it becomes necessary to purchase more land for cemetery purposes.

The following will show the excess of running expenses over receipts, (applicable for the purpose) of the several cemeteries during the year.

For Woodland Cemetery,	-	-	\$	492	01
For Erie Street Cemetery,	-	-	-	571	55
For Monroe Street Cemetery,	-	-	-	1,232	94
For Eighteenth Ward Cemetery,	-	-	-	209	00

Total,	-	-	-	\$2,505	50
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Add to this amount expended for general

bills,	-	-	-	-	\$	159	50
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Total excess of expenditure over the re-

ceipts applicable for this purpose,	2,665	00
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L. W. BAILEY, *Secretary.*

